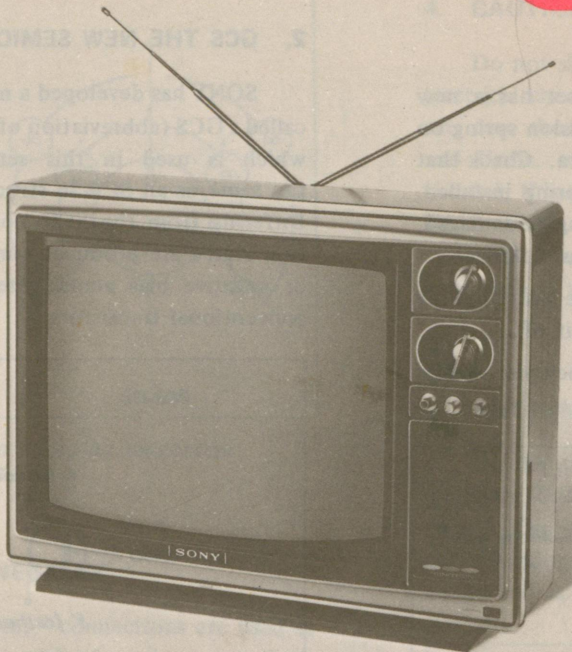
Chassis No. SCC-64A-A

KV-1910

USA Model



TRINITRON® COLOR TV

SPECIFICATIONS

TV-signal standards:	American TV standards (NTSC color)
Picture tube:	19" (measured diagonally) 114° deflection TRINITRON system
Semiconductors:	23 transistors, 38 diodes, 7 ICs 1 GCS (Gate Controlled Switch) and 1 FET
Antenna:	VHF: 300 Ω balanced (telescopic antenna, dipole*) 75 Ω unbalanced (included in slide switch) UHF: 300 Ω balanced (loop antenna*) *Note: Supplied with accessories
Channel coverage:	VHF: Ch 2 – 13 UHF: Ch 14 – 83 (70-detent tuner)
Intermediate frequencies:	Picture i-f carrier: 45.75 MHz Color subcarrier: 42.17 MHz Sound i-f carrier: 41.25 MHz
Sound system:	4.5 MHz intercarrier Output power: 2 W (at 10 % harmonic distortion) Speaker: 15 x 10 (cm) oval, 8 Ω 6 x 4 (inches)
Video system:	RGB cathode drive
Automatic controls:	AFT (automatic fine tuning) AGC (automatic gain control) AFC (automatic frequency control) ANC (automatic noise canceller) ABL (automatic brightness limiter) ACC (automatic color control) ACK (automatic color killer) ADG (automatic degaussing) AVR (automatic voltage regulator)
Power requirements:	120 V ac, 60 Hz
Power consumption:	170 W (max)
Dimensions:	626 (w) x 462 (h) x 396 (d) mm 24⅝ (w) x 18⅛ (h) x 15⅝ (d) inches
Net weight:	31.5 kg (69 lb 7 oz)
Accessories:	Earphone (ME-20B) UHF loop antenna (AN-15) Telescopic dipole antenna (AN-16) Instruction manual
Anode voltage:	27 kV at zero beam current

WARNING!!

THIS CHASSIS OPERATES WITH ONE SIDE OF THE POWER LINE CONNECTED TO THE CHASSIS. TO ELIMINATE SHOCK HAZARD AND PROTECT EQUIPMENT WHEN SERVICING THE SET WITH THE COVERS REMOVED, MAKE SURE THAT THE SET IS PLUGGED INTO A SUITABLY-RATED ISOLATION TRANSFORMER.

X-RAY RADIATION WARNING!!

BE SURE THAT PARTS REPLACEMENT IN THE HIGH VOLTAGE BLOCK AND ADJUSTMENTS MADE TO THE HIGH VOLTAGE CIRCUITS ARE CARRIED OUT PRECISELY IN ACCORDANCE WITH THE PROCEDURES GIVEN IN THIS MANUAL.

SONY®

SERVICE MANUAL

SERVICING NOTES

1. PICTURE TUBE

(a) The picture tube used in the set has a new anode lead. There is a compression spring on the anode lead, as shown in Fig. a. Check that the replacement tube has the spring installed. Do not remove it. If the spring is damaged, remove it and install a new one as follows:

1. Turn the spring counterclockwise while pulling it outward. Do not simply pull it off.
2. Install a new one by turning it clockwise slowly. Do not simply push it in.

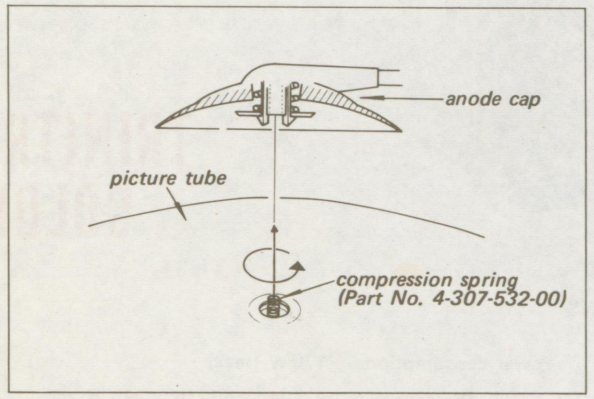


Fig. a. New anode cap and anode lead

(b) Use the jig (anode cap remover, Part No. 7-700-768-01) to remove the anode cap otherwise the picture tube might be damaged. Details are shown in Fig. b.

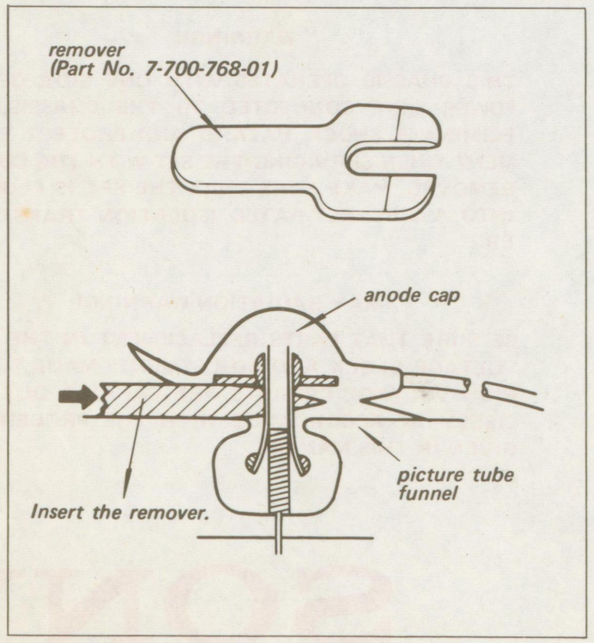


Fig. b. Anode cap removal

2. GCS THE NEW SEMICONDUCTOR DEVICE

SONY has developed a new semiconductor device called a GCS (abbreviation of Gate-Controlled Switch) which is used in this set. A GCS is basically the same as an SCR in structure, as shown in Fig. c. Differing from the SCR, conduction or non-conduction states are produced simply by applying positive or negative bias across gate-cathode terminals as in conventional transistors.

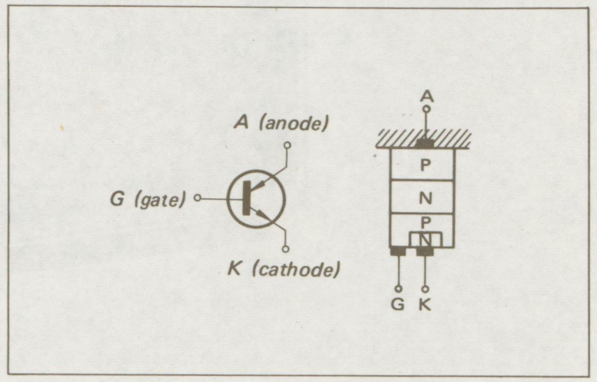


Fig. c. GCS pin connection and structure

Cautions on Replacement GCS

The GCSs used in the set are selected according to their characteristics which are indicated by two letters marked on the case as shown in Fig. d. We stock the "AA" rank for general replacement.

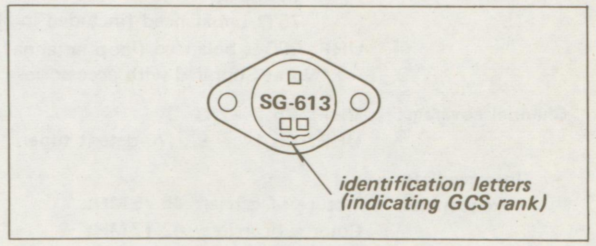


Fig. d. Identification of GCS rank

How to Test a GCS Using an Ohmmeter

a. Establish the polarity of your ohmmeter leads, that is, how the ohmmeter leads are connected to its internal battery. Mark them.

b. Measure the resistance between the two points (anode-gate, cathode-gate) in both directions (four tests) as shown in Fig. e using RX1 scale. Normal resistance values are also shown, corresponding to the polarity of the ohmmeter. The GCS under test is defective if it shows different resistance values.

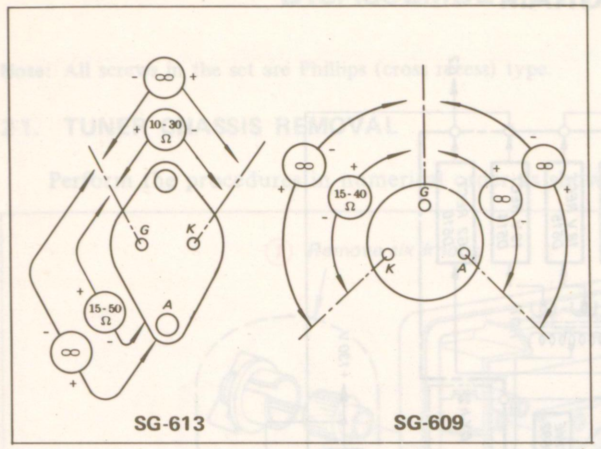


Fig. e. GCS test using an ohmmeter

3. WIRE-WRAP CONNECTION

In this set, "wire-wrap" connections are used as shown in Fig. f. If removal of a wire is required, loosen it by turning the lead two or three times, and then cut the lead. To reconnect the lead, simply solder it to the terminal post as a wire-wrap connection cannot be properly made by hand.

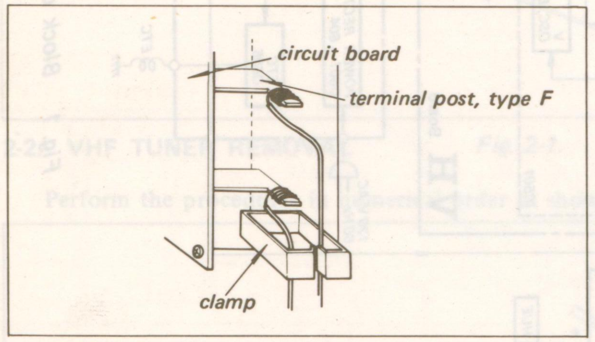


Fig. f. Wire-wrapping connection

4. CAUTIONS WHEN HANDLING ICs

Do not short adjacent IC leads when performing electrical checks as this might damage the IC. In this set, care should be taken especially on IC501 (Vert. and Horiz. oscillator). If some adjacent leads are shorted, this might blow the fuse (F602) and damage Q510 (Horiz. output). Do not touch the IC lead ⑬ with any equipment having a low input impedance such as a VOM.

5. ANTENNA CONNECTION

On the antenna terminal assembly (rear), there is a 75Ω~300Ω selection switch for VHF reception only. The switch should be set to the position corresponding to the type of the lead-in wire to be connected as shown in Fig. g.

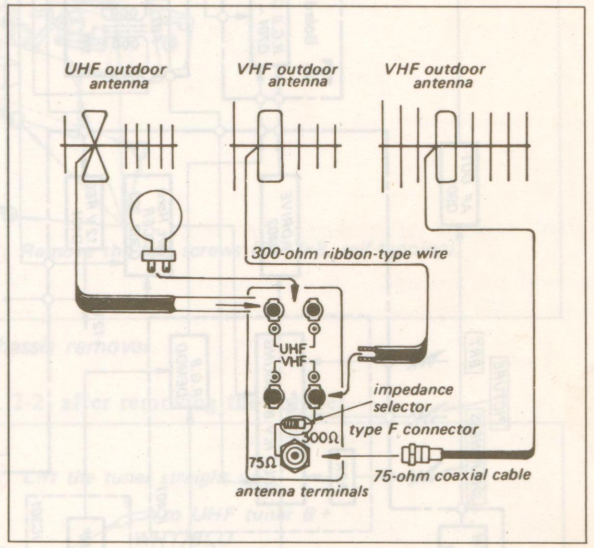


Fig. g. Impedance selector switch and antenna connection

SECTION 1
BLOCK DIAGRAM

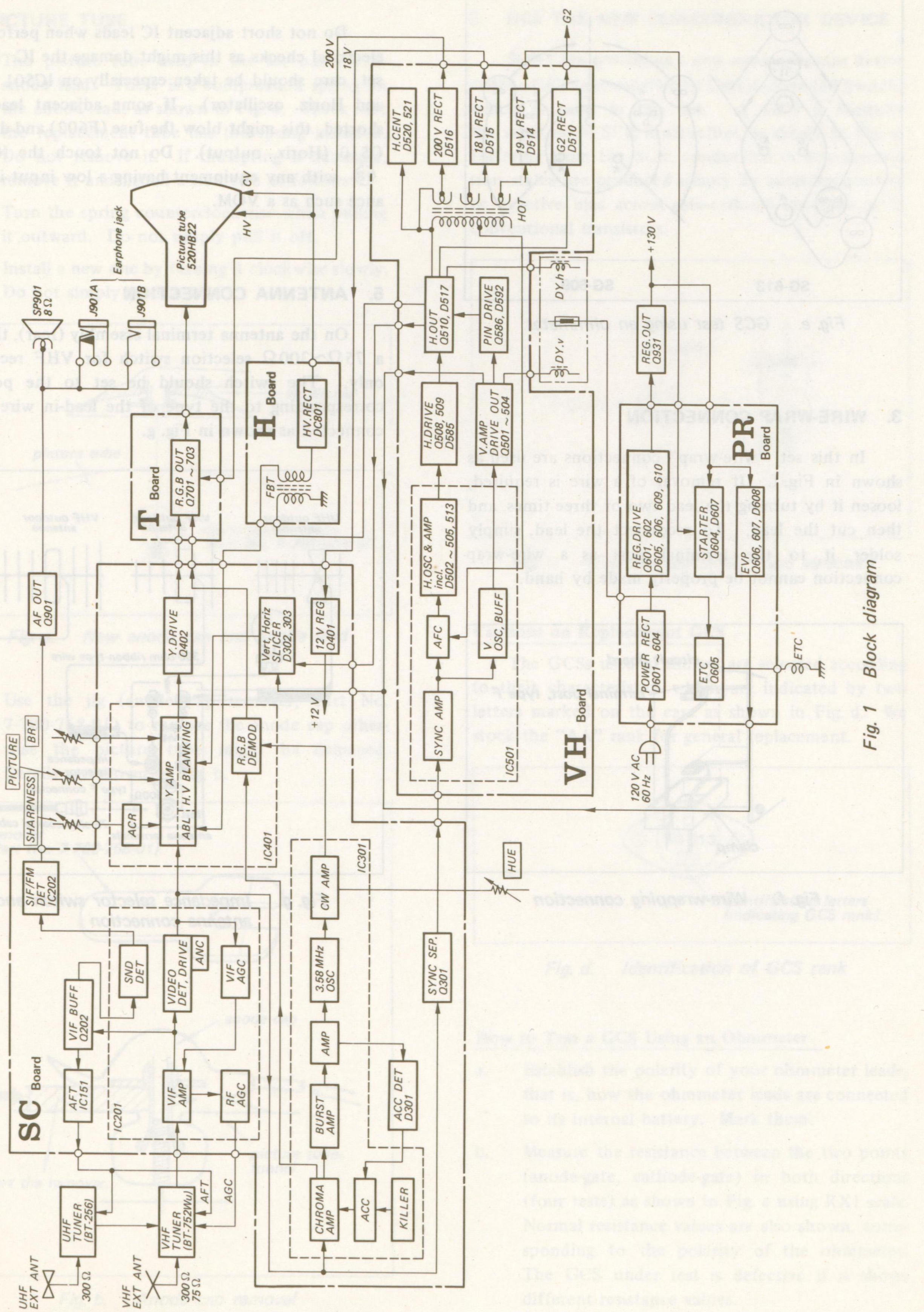


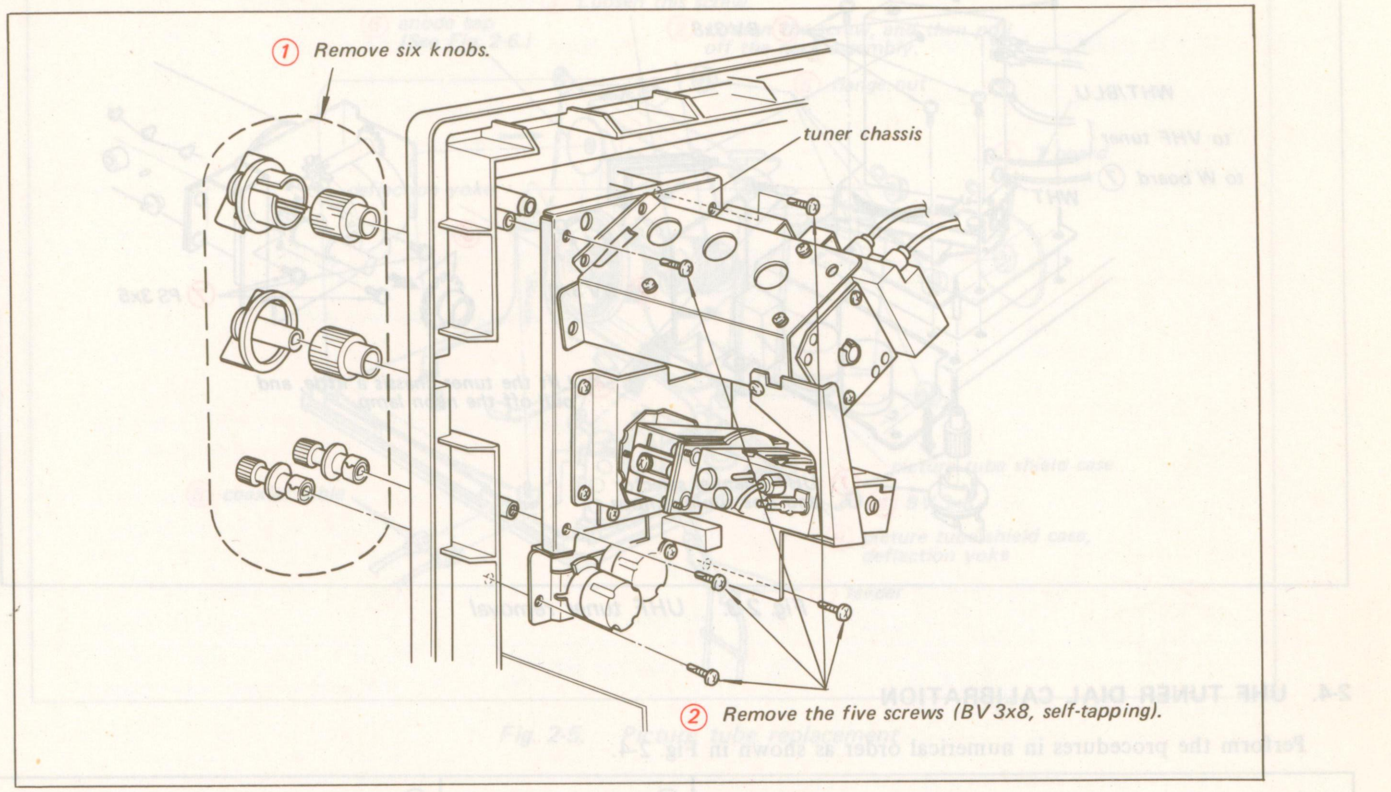
Fig. 1 Block diagram

SECTION 2
DISASSEMBLY AND REPLACEMENT

Note: All screws in the set are Phillips (cross recess) type.

2-1. TUNER CHASSIS REMOVAL

Perform the procedures in numerical order as shown in Fig. 2-1, after removing the cabinet.



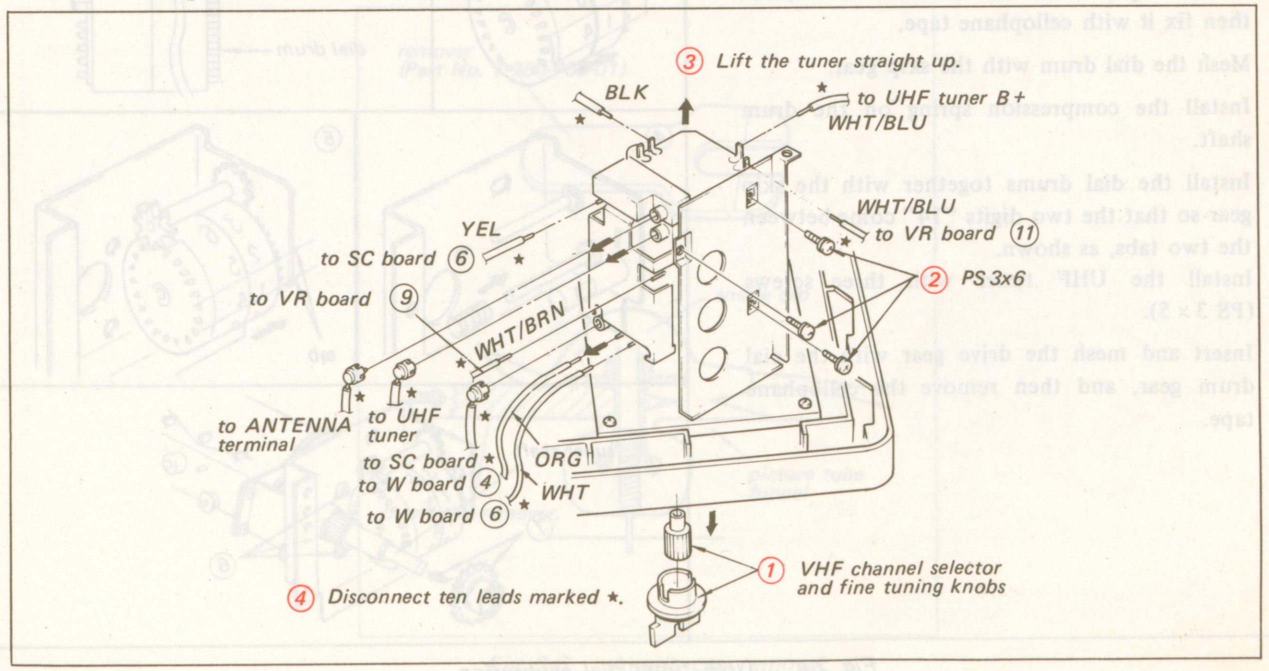
① Remove six knobs.

② Remove the five screws (BV 3x8, self-tapping).

Fig. 2-1. Tuner chassis removal

2-2. VHF TUNER REMOVAL

Perform the procedures in numerical order as shown in Fig. 2-2, after removing the cabinet.



③ Lift the tuner straight up.

② PS 3x6

① VHF channel selector and fine tuning knobs

④ Disconnect ten leads marked ★.

Fig. 2-2. VHF tuner removal

2-3. UHF TUNER REMOVAL

Note: Perform UHF tuner dial calibration as described under Procedure 2-4 when the UHF tuner is replaced.

Perform the procedures in numerical order as shown in Fig. 2-3, after removing the cabinet.

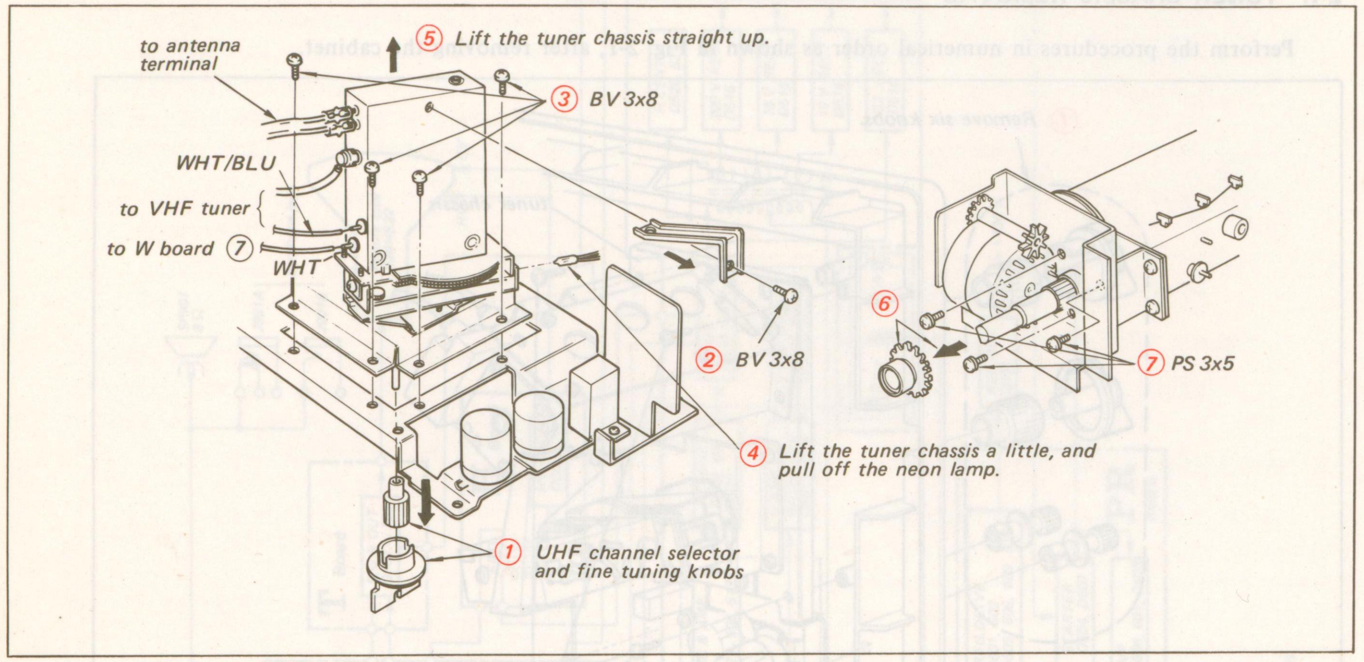

to antenna terminal
⑤ Lift the tuner chassis straight up.
③ BV 3x8
WHT/BLU
to VHF tuner
to W board ⑦
WHT
⑥
② BV 3x8
⑦ PS 3x5
④ Lift the tuner chassis a little, and pull off the neon lamp.
① UHF channel selector and fine tuning knobs

Fig. 2-3. UHF tuner removal

2-4. UHF TUNER DIAL CALIBRATION

Perform the procedures in numerical order as shown in Fig. 2-4.

1. Turn the tuner shaft fully counterclockwise.
2. Set the digits on the dial drums as shown, and then fix it with cellophane tape.
3. Mesh the dial drum with the skip gear.
4. Install the compression spring on the drum shaft.
5. Install the dial drums together with the skip gear so that the two digits "14" come between the two tabs, as shown.
6. Install the UHF tuner with three screws (PS 3 x 5).
7. Insert and mesh the drive gear with the dial drum gear, and then remove the cellophane tape.

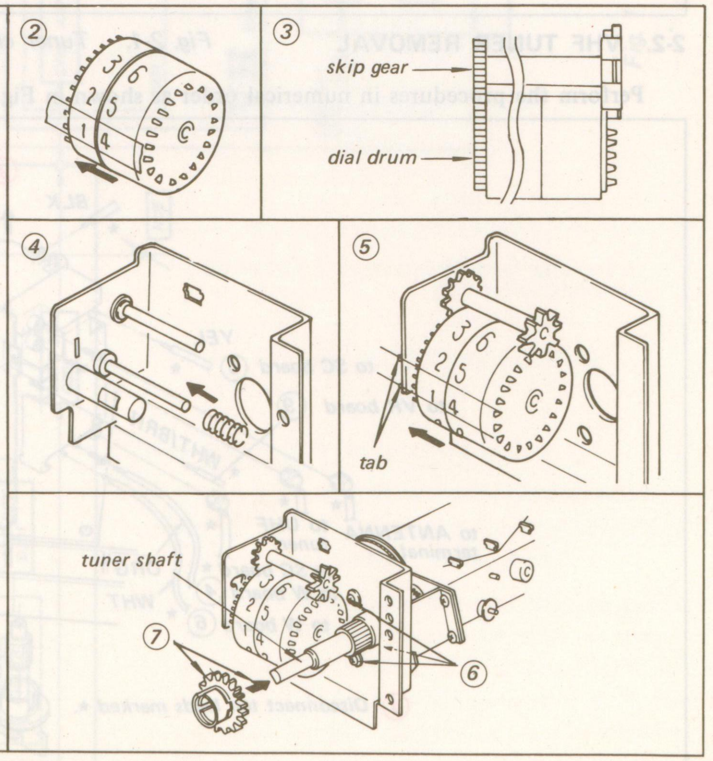


Fig. 2-4. UHF tuner dial calibration

2-5. PICTURE TUBE REPLACEMENT

Remove the cabinet, then perform the procedures in numerical order as shown in Fig. 2-5.

Note: Place the set on the protective sheet with the picture tube face down. After completing the replacement, proceed to "Set-up Adjustments" as described in Section 3.

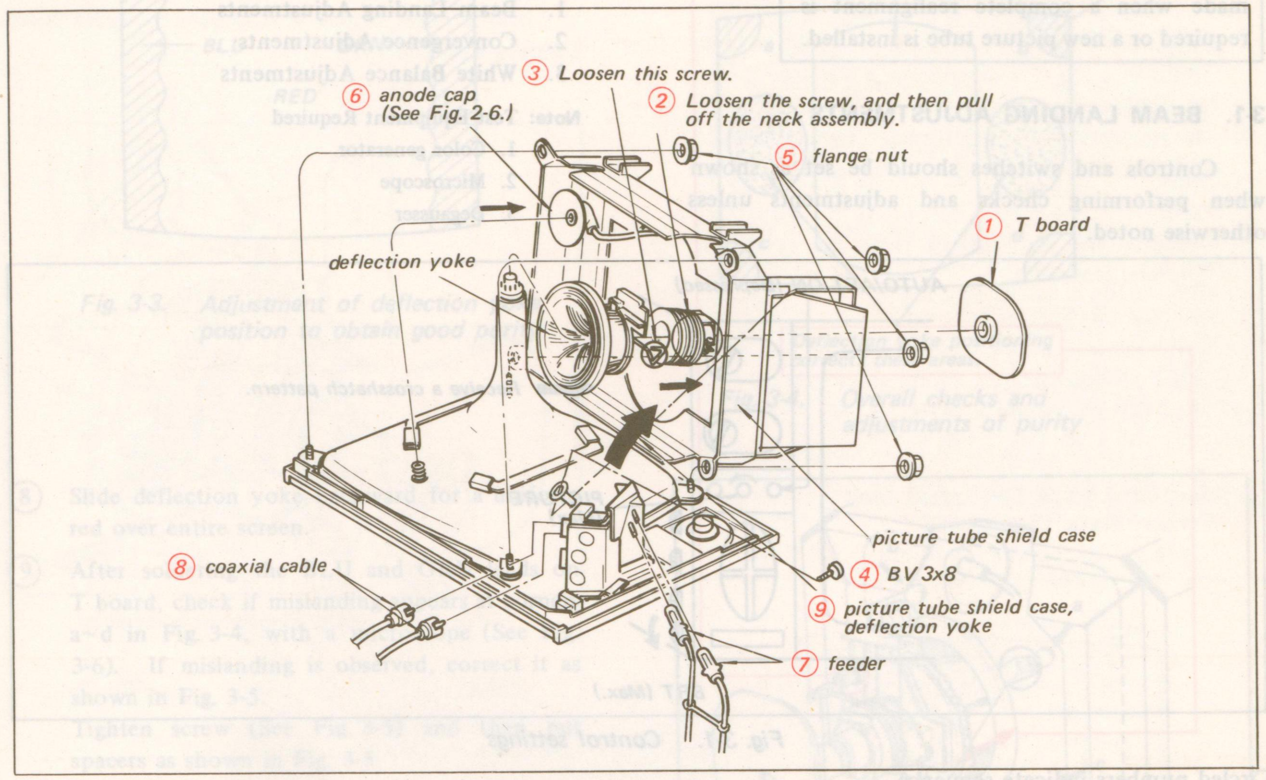

③ Loosen this screw.
⑥ anode cap (See Fig. 2-6.)
② Loosen the screw, and then pull off the neck assembly.
⑤ flange nut
① T board
deflection yoke
picture tube shield case
⑧ coaxial cable
④ BV 3x8
⑨ picture tube shield case, deflection yoke
⑦ feeder

Fig. 2-5. Picture tube replacement

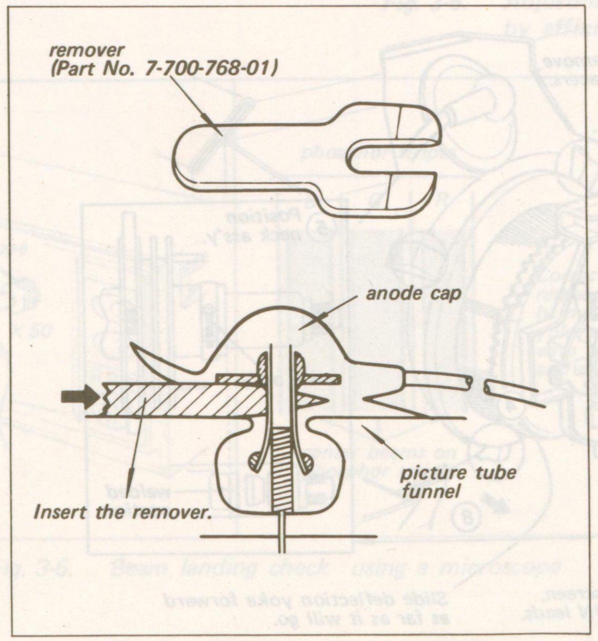


Fig. 2-6. Anode cap removal

SECTION 3
SETUP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

Perform the adjustments in order as follows:

1. Beam Landing Adjustments
2. Convergence Adjustments
3. White Balance Adjustments

Note: Test Equipment Required
1. Color generator
2. Microscope
3. Degausser

3-1. BEAM LANDING ADJUSTMENTS

Controls and switches should be set as shown when performing checks and adjustments unless otherwise noted.

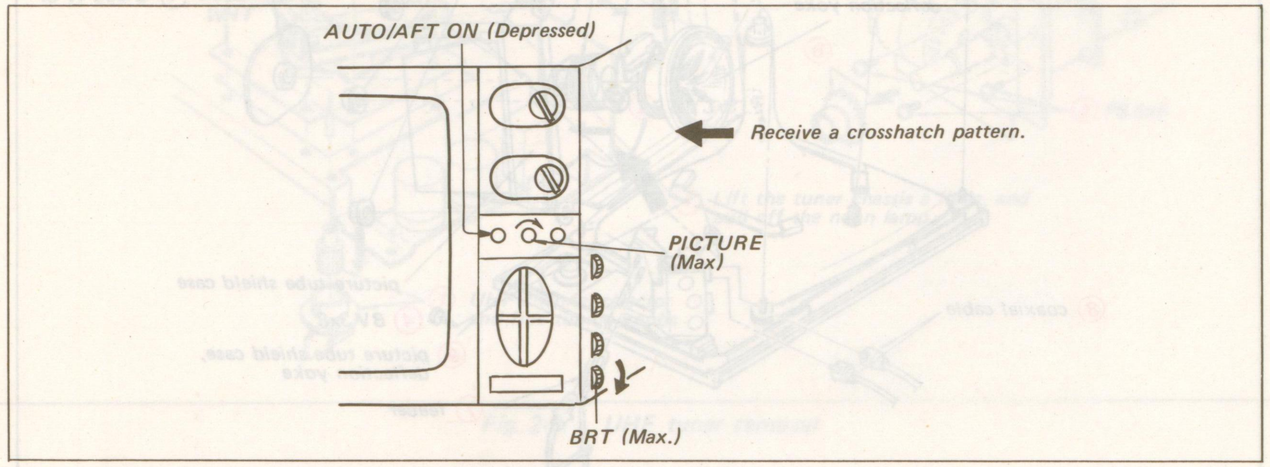
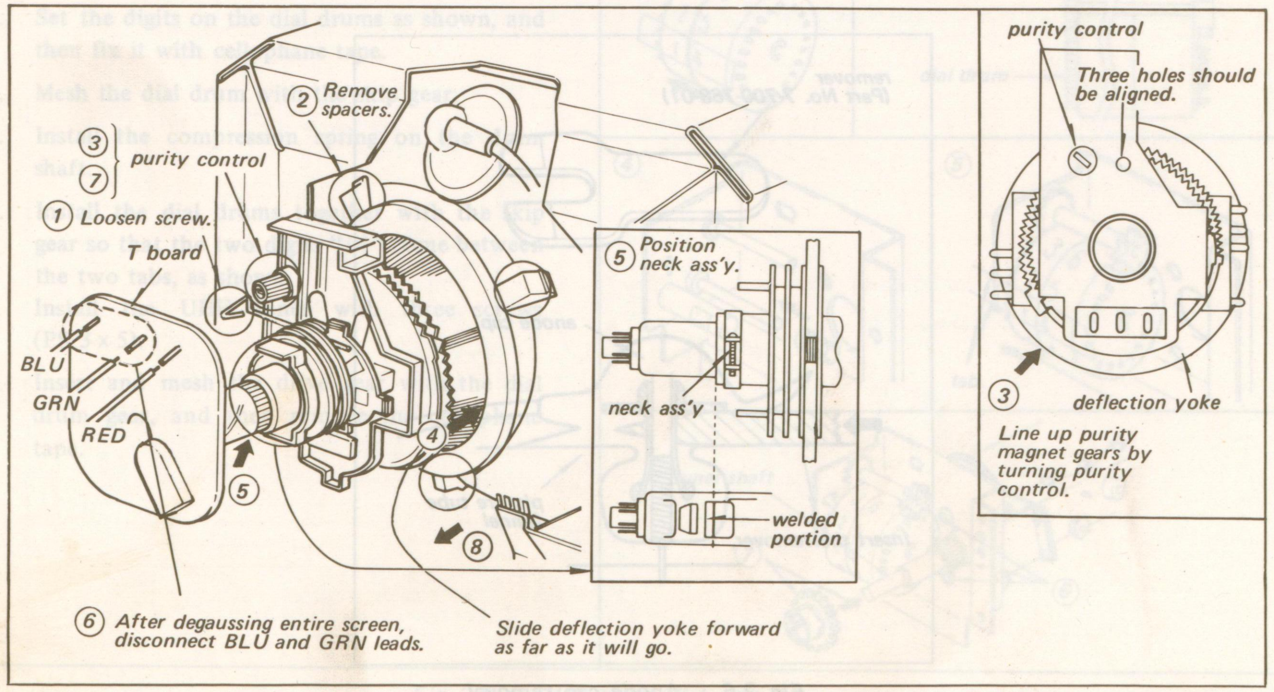


Fig. 3-1. Control settings

Circled numbers indicate sequence.

① ~ ⑤.............. Power switch; OFF

⑥ ~ ⑨.............. Power switch ; ON (Three minute warmup)



Line up purity magnet gears by turning purity control.

⑥ After degaussing entire screen, disconnect BLU and GRN leads.

Slide deflection yoke forward as far as it will go.

Fig. 3-2. Beam landing adjustment setup

⑦ Turn purity control to center vertical red band.

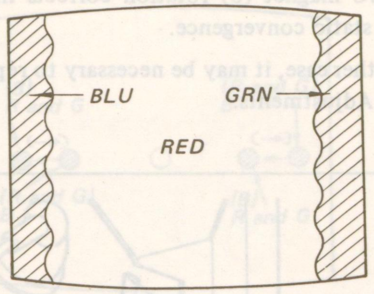


Fig. 3-3. Adjustment of deflection yoke position to obtain good purity

⑧ Slide deflection yoke backward for a uniform red over entire screen.

⑨ After soldering the BLU and GRN leads on T board, check if mislanding appears at corners a~d in Fig. 3-4, with a microscope (See Fig. 3-6). If mislanding is observed, correct it as shown in Fig. 3-5.
Tighten screw (See Fig. 3-5) and then put spacers as shown in Fig. 3-5.

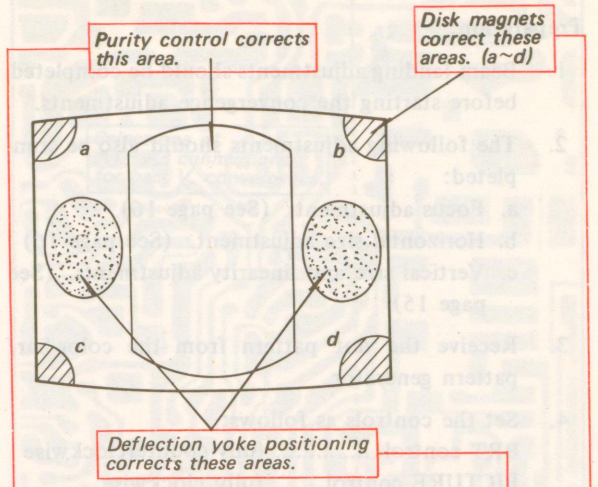

Purity control corrects this area.
Disk magnets correct these areas. (a~d)
a
b
c
d
Deflection yoke positioning corrects these areas.

Fig. 3-4. Overall checks and adjustments of purity

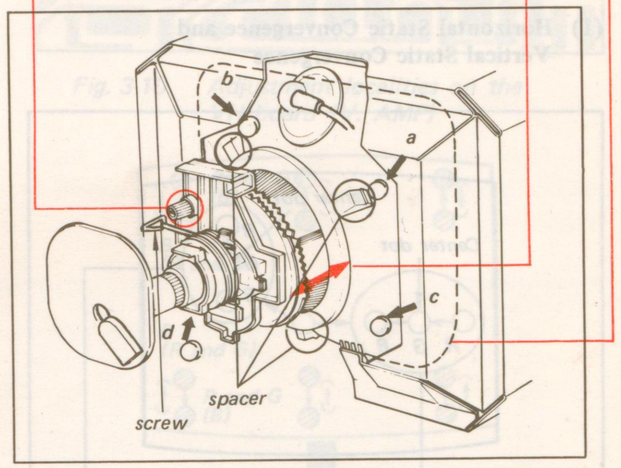
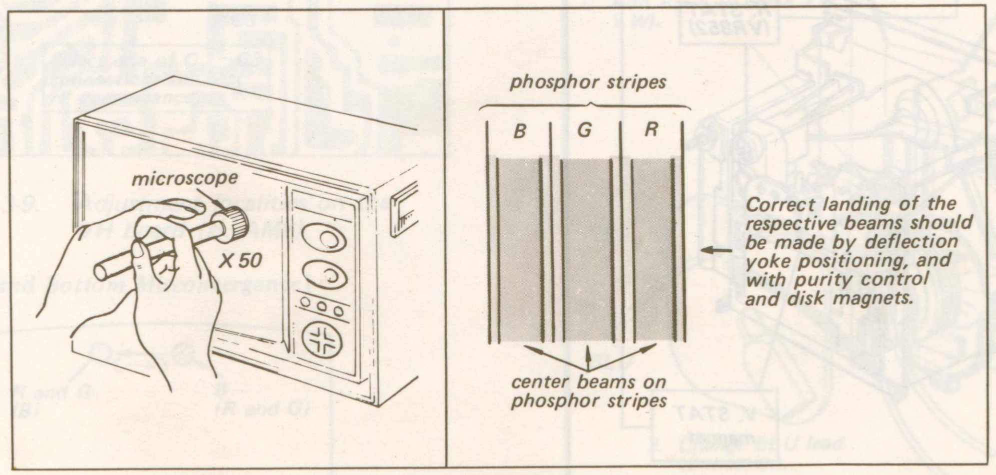


Fig. 3-5. Adjustment of corner mislanding by affixing small disk magnets



Correct landing of the respective beams should be made by deflection yoke positioning, and with purity control and disk magnets.

Fig. 3-6. Beam landing check using a microscope

3-2. CONVERGENCE ADJUSTMENTS

Preparation:

1. Beam landing adjustments should be completed before starting the convergence adjustments.
2. The following adjustments should also be completed:
   a. Focus adjustment. (See page 16)
   b. Horizontal size adjustment. (See page 16)
   c. Vertical size and linearity adjustments. (See page 15)
3. Receive the dot pattern from the color-bar/pattern generator.
4. Set the controls as follows:
   BRT control .... fully counterclockwise
   PICTURE control ...... fully clockwise
   AUTO/AFT switch ......ON

(1) Horizontal Static Convergence and Vertical Static Convergence

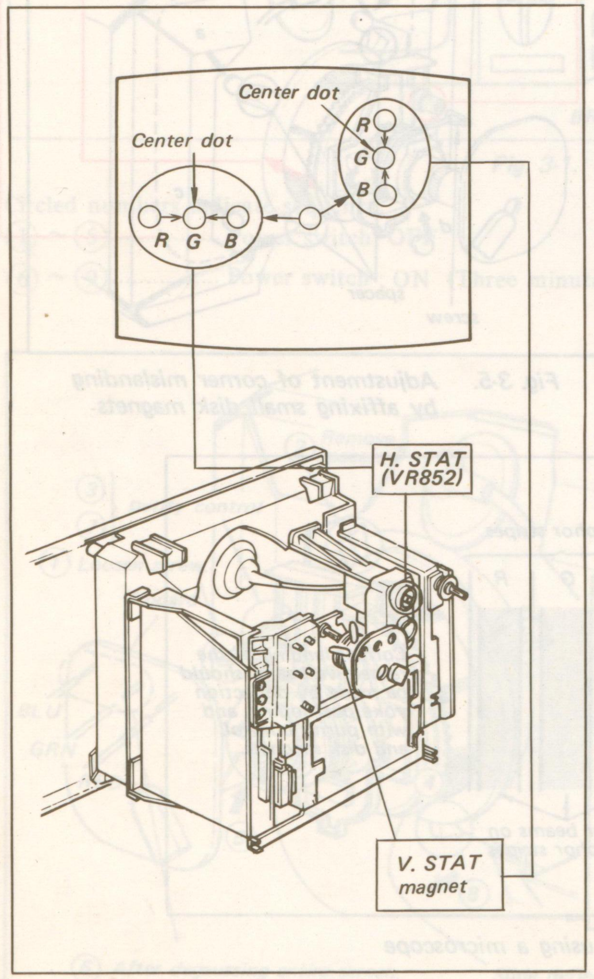


Fig. 3-7. Location of controls

BMC magnet (a) movement corrects insufficient H. static convergence.

BMC magnet (b) rotation corrects insufficient V. static convergence.

In either case, it may be necessary to repeat Beam Landing Adjustments.

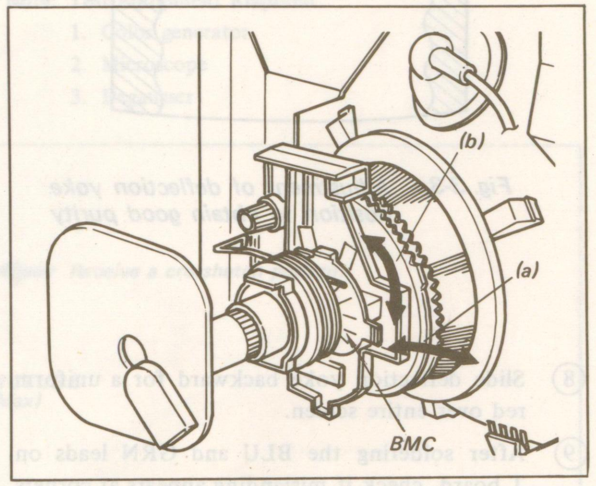


Fig. 3-8. BMC magnet adjustments

(2) Dynamic Convergence Adjustment

[Misconvergence at Both Sides of Screen.]

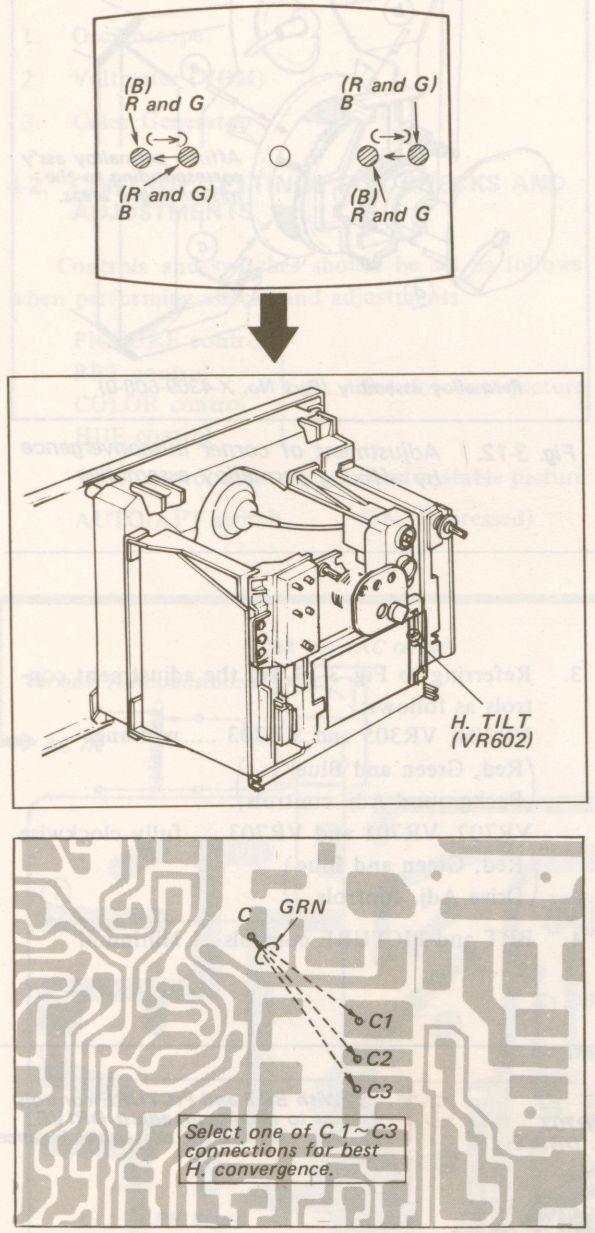
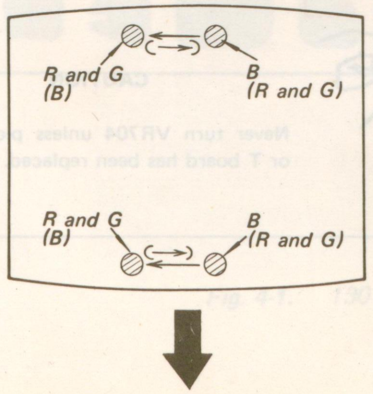


Fig. 3-9. Adjustment localities on the VH board (H. AMP)

[Top and Bottom Misconvergence]



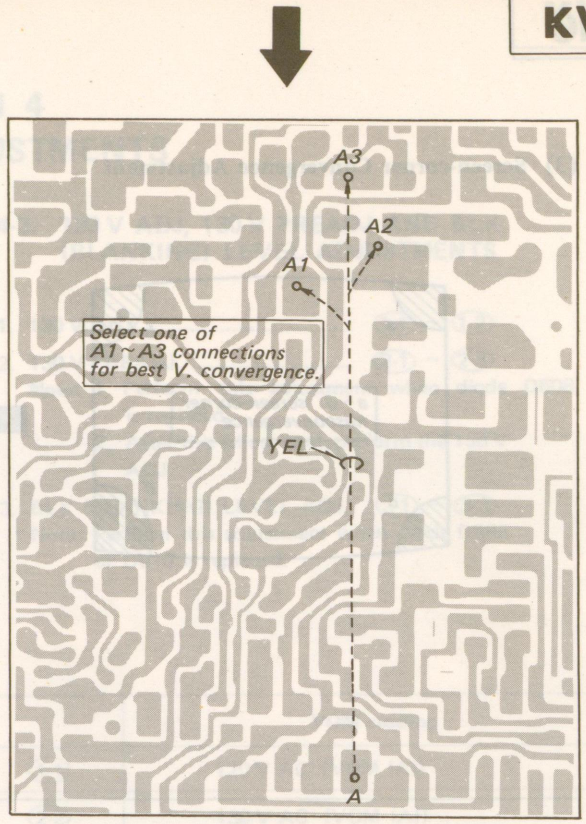


Fig. 3-10. Adjustment localities on the VH board (V. AMP)

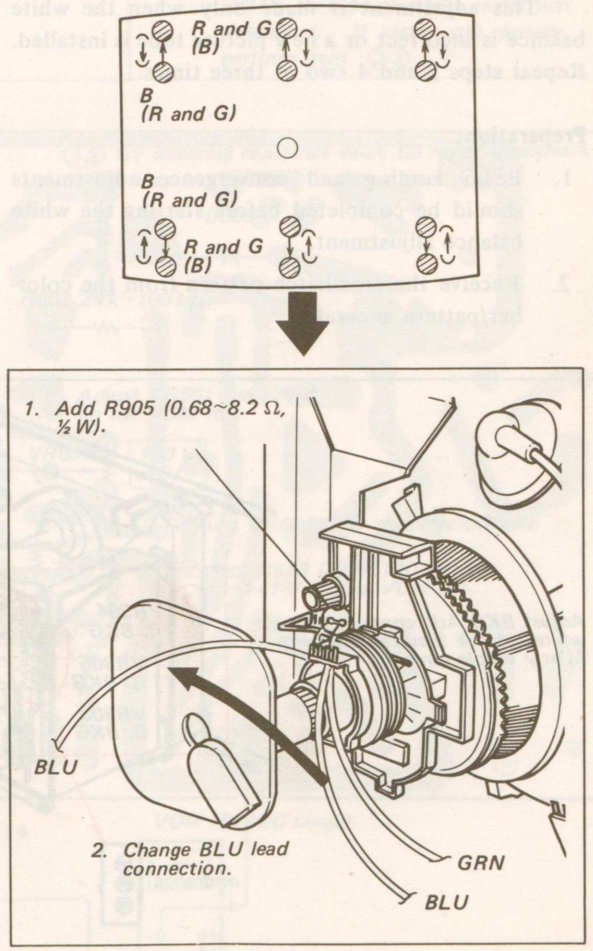
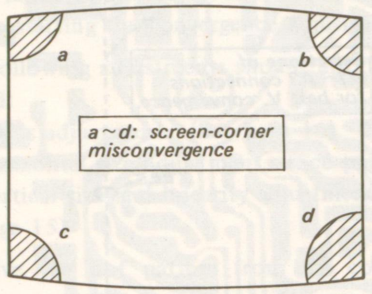
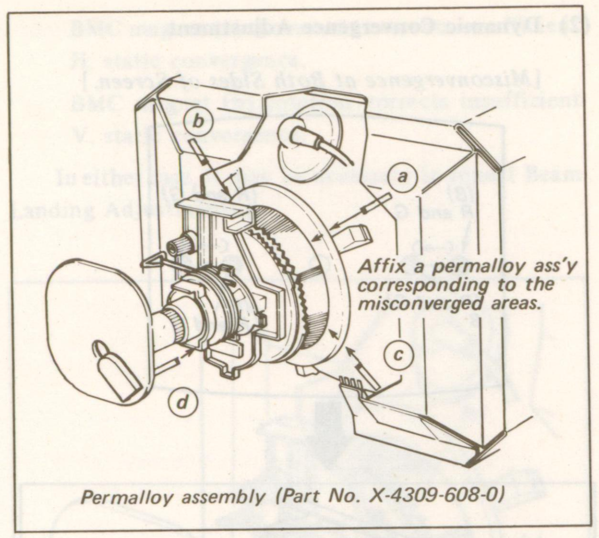

R and G
(B)
B
(R and G)
B
(R and G)
R and G
(B)
1. Add R905 (0.68~8.2 Ω, ½ W).
BLU
2. Change BLU lead connection.
GRN
BLU

Fig. 3-11. Adjustment portion on the neck assembly

(3) Screen-corner Convergence Adjustment




b
a
c
d
Affix a permalloy ass'y corresponding to the misconverged areas.

Permalloy assembly (Part No. X-4309-608-0)

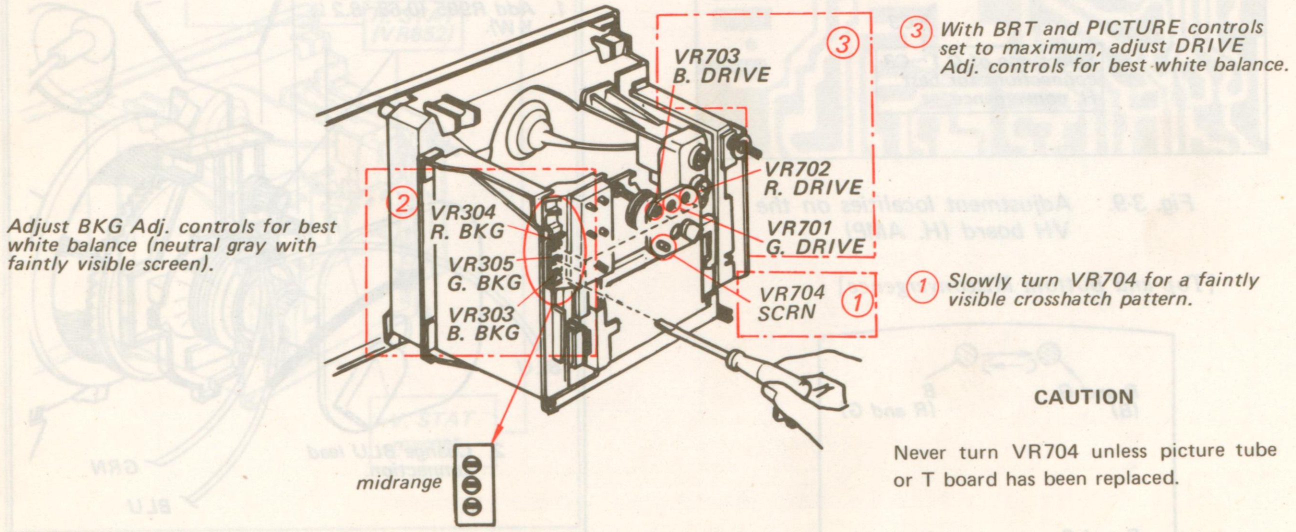
Fig. 3-12. Adjustment of corner misconvergence by affixing permalloy assemblies

3-3. WHITE BALANCE ADJUSTMENTS

This adjustment is made only when the white balance is incorrect or a new picture tube is installed. Repeat steps 2 and 4 two or three times.

Preparation:

1. Beam landing and convergence adjustments should be completed before starting the white balance adjustment.
2. Receive the crosshatch pattern from the color-bar/pattern generator.
3. Referring to Fig. 3-13, set the adjustment controls as follows:
   VR304, VR305 and VR303 ..... midrange
   (Red, Green and Blue Background Adj. controls)
   VR702, VR701 and VR703..... fully clockwise
   (Red, Green and Blue Drive Adj. controls)
4. BRT and PICTURE controls ..... Minimum


Adjust BKG Adj. controls for best white balance (neutral gray with faintly visible screen).
②
VR304
R. BKG
VR305
G. BKG
VR303
B. BKG
midrange
VR703
B. DRIVE
③
VR702
R. DRIVE
VR701
G. DRIVE
VR704
SCRN
①
③ With BRT and PICTURE controls set to maximum, adjust DRIVE Adj. controls for best white balance.
① Slowly turn VR704 for a faintly visible crosshatch pattern.

CAUTION

Never turn VR704 unless picture tube or T board has been replaced.

Fig. 3-13. Adjustable parts location

SECTION 4
CIRCUIT ADJUSTMENTS

4-1. TEST EQUIPMENT REQUIRED

1. Oscilloscope
2. Voltmeter (VOM)
3. Color Generator

4-2. CONTROL SETTINGS FOR CHECKS AND ADJUSTMENTS

Controls and switches should be set as follows when performing checks and adjustments.

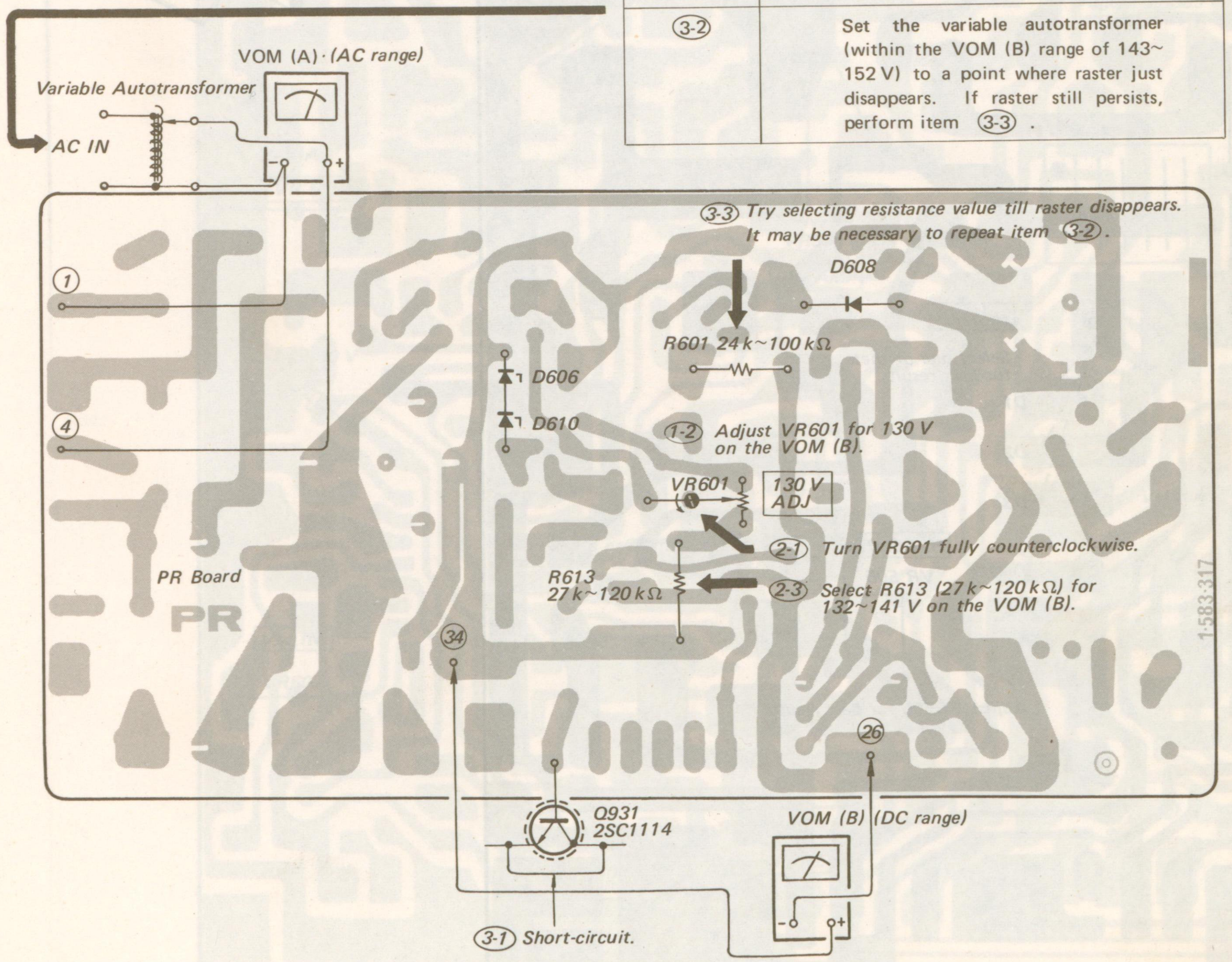
PICTURE control
BRT control
COLOR control
HUE control .... Set for best picture

VER control .... Set for stable picture
AUTO/AFT switch .... ON (Depressed)

4-3. 130 V ADJ, 130 V PREADJ AND BLK (BLANKING) LEVEL ADJUSTMENTS

1. 130 V ADJ .... ⑴-⑴ ~ ⑴-⑵
2. 130 V PREADJ .... ⑵-⑴ ~ ⑵-⑶
   Note: 1. Perform this adjustment when diode D608 is replaced.
   2. After this adjustment, perform the 130 V ADJ.
3. BLK (BLANKING) LEVEL ADJ ⑶-⑴ ~ ⑶-⑶
   Note: Perform this adjustment when diode D606 or D610 is replaced.

	VOM reading
⑴-⑴	120 V AC (VOM (A))
⑵-⑵	130 V AC (VOM (A))
⑶-⑵	Set the variable autotransformer (within the VOM (B) range of 143~152 V) to a point where raster just disappears. If raster still persists, perform item ⑶-⑶ .



⑶-⑶ Try selecting resistance value till raster disappears. It may be necessary to repeat item ⑶-⑵.

⑴-⑵ Adjust VR601 for 130 V on the VOM (B).

⑵-⑴ Turn VR601 fully counterclockwise.

⑵-⑶ Select R613 (27 k~120 kΩ) for 132~141 V on the VOM (B).

⑶-⑴ Short-circuit.

Fig. 4-1. 130 V ADJ, 130 V PREADJ and BLK LEVEL adjustment

SECTION 4
CIRCUIT ADJUSTMENTS

4-1. TEST EQUIPMENT REQUIRED

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2. Voltmeter (VOM)
3. Color Generator

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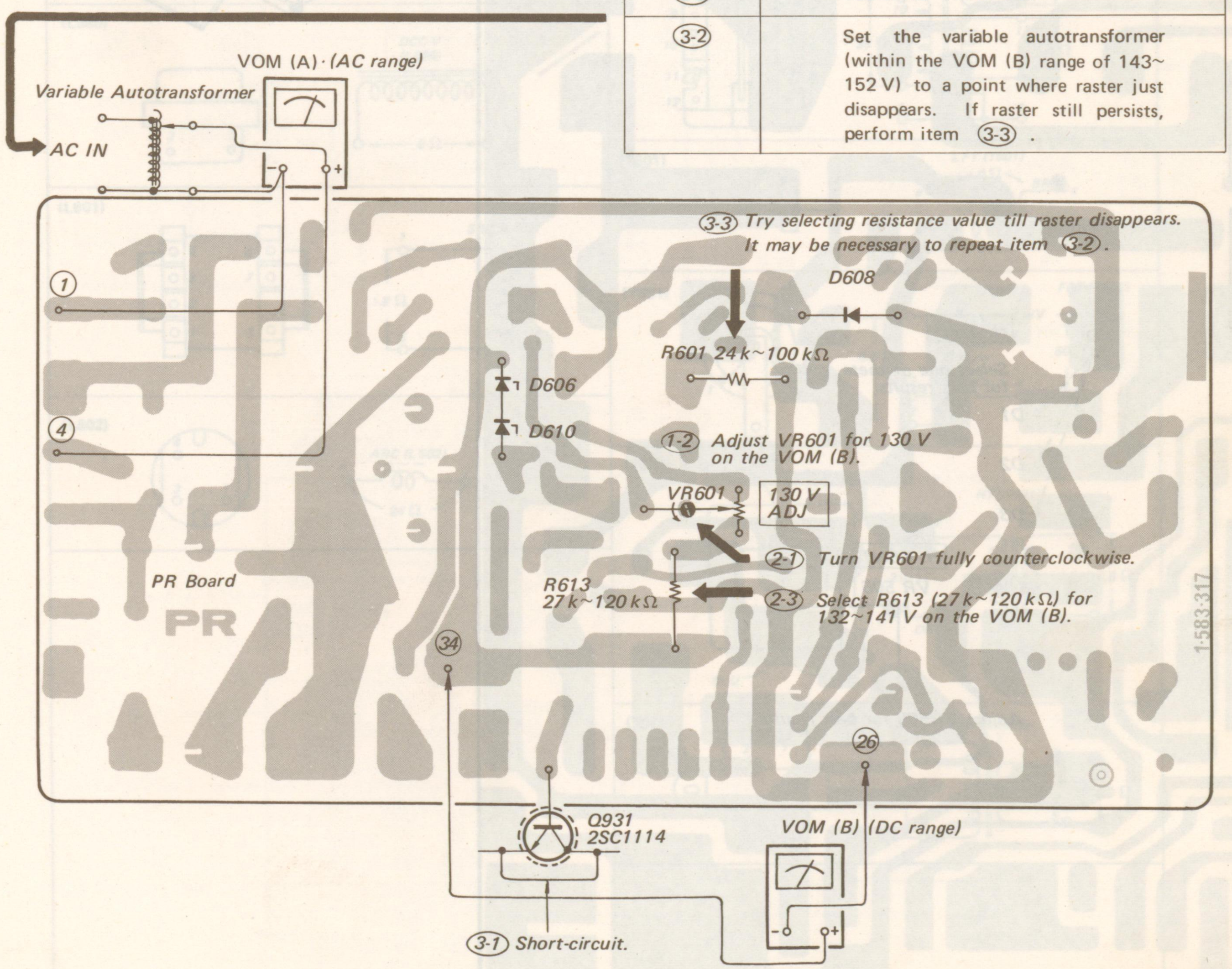
Controls and switches should be set as follows when performing checks and adjustments.

PICTURE control
BRT control
COLOR control
HUE control ...... Set for best picture
VER control .... Set for stable picture
AUTO/AFT switch .... ON (Depressed)

4-3. 130 V ADJ, 130 V PREADJ AND BLK (BLANKING) LEVEL ADJUSTMENTS

1. 130 V ADJ .... (1-1) ~ (1-2)
2. 130 V PREADJ .... (2-1) ~ (2-3)
   Note: 1. Perform this adjustment when diode D608 is replaced.
   2. After this adjustment, perform the 130 V ADJ.
3. BLK (BLANKING) LEVEL ADJ (3-1) ~ (3-3)
   Note: Perform this adjustment when diode D606 or D610 is replaced.

	VOM reading
(1-1)	120 V AC (VOM (A))
(2-2)	130 V AC (VOM (A))
(3-2)	Set the variable autotransformer (within the VOM (B) range of 143~152 V) to a point where raster just disappears. If raster still persists, perform item (3-3).



(3-3) Try selecting resistance value till raster disappears. It may be necessary to repeat item (3-2).

(1-2) Adjust VR601 for 130 V on the VOM (B).

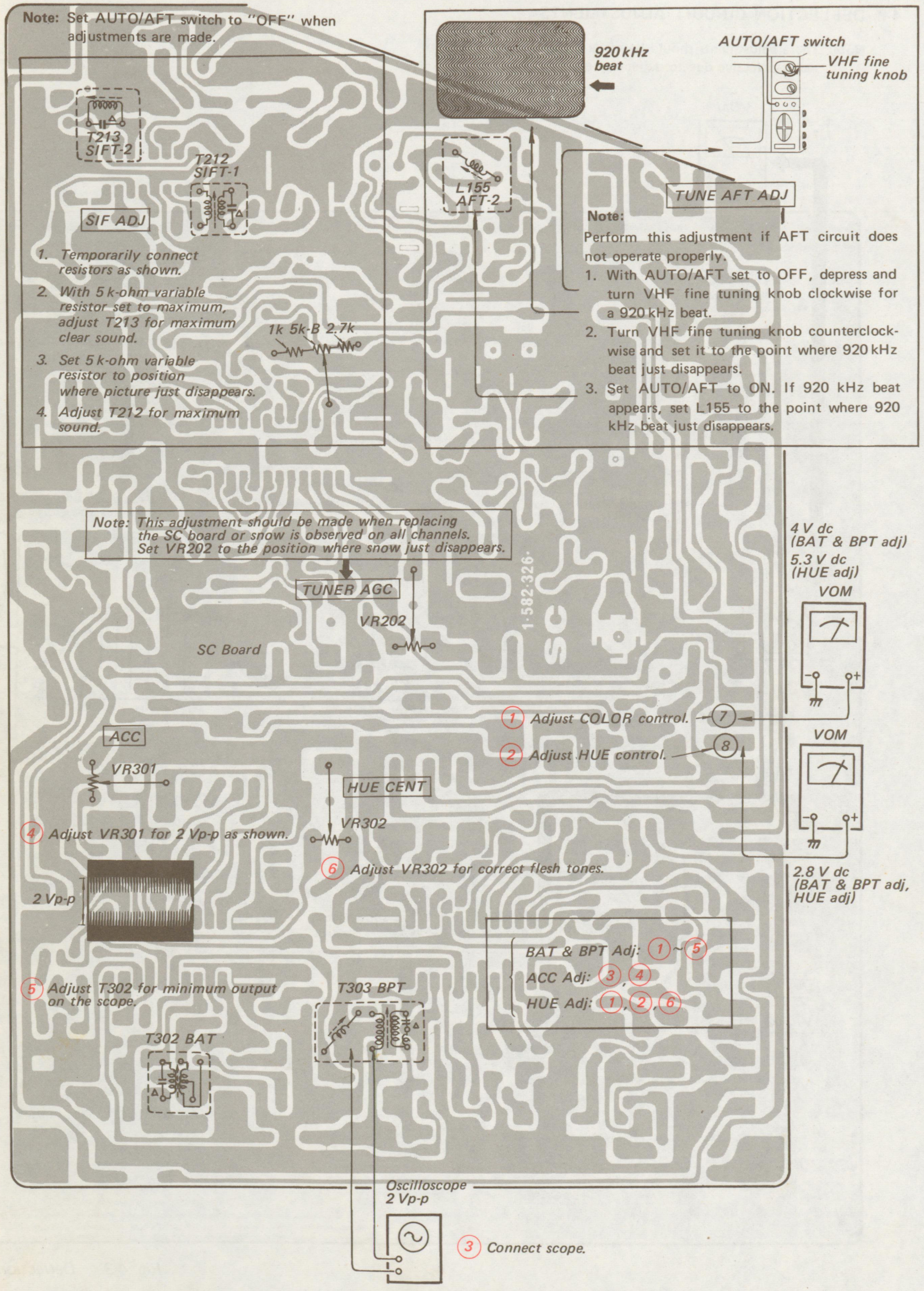
(2-1) Turn VR601 fully counterclockwise.

(2-3) Select R613 (27 k~120 kΩ) for 132~141 V on the VOM (B).

(3-1) Short-circuit.

Fig. 4-1. 130 V ADJ, 130 V PREADJ and BLK LEVEL adjustment

4-4. SIF, VIF AND COLOR CIRCUIT ADJUSTMENTS



Note: Set AUTO/AFT switch to "OFF" when adjustments are made.

SIF ADJ

1. *Temporarily connect resistors as shown.*
2. *With 5 k-ohm variable resistor set to maximum, adjust T213 for maximum clear sound.*
3. *Set 5 k-ohm variable resistor to position where picture just disappears.*
4. *Adjust T212 for maximum sound.*

TUNE AFT ADJ

Note:

Perform this adjustment if AFT circuit does not operate properly.

1. With AUTO/AFT set to OFF, depress and turn VHF fine tuning knob clockwise for a 920 kHz beat.
2. Turn VHF fine tuning knob counterclockwise and set it to the point where 920 kHz beat just disappears.
3. Set AUTO/AFT to ON. If 920 kHz beat appears, set L155 to the point where 920 kHz beat just disappears.

Note: This adjustment should be made when replacing the SC board or snow is observed on all channels. Set VR202 to the position where snow just disappears.

① *Adjust COLOR control.*

② *Adjust HUE control.*

③ *Connect scope.*

④ *Adjust VR301 for 2 Vp-p as shown.*

⑤ *Adjust T302 for minimum output on the scope.*

⑥ *Adjust VR302 for correct flesh tones.*

BAT & BPT Adj: ① ~ ⑤
ACC Adj: ③, ④
HUE Adj: ①, ②, ⑥

4-8. DEFLECTION CIRCUIT ADJUSTMENTS

Note: These adjustments should be made if display on the screen seems defective due to deflection or focus troubles.

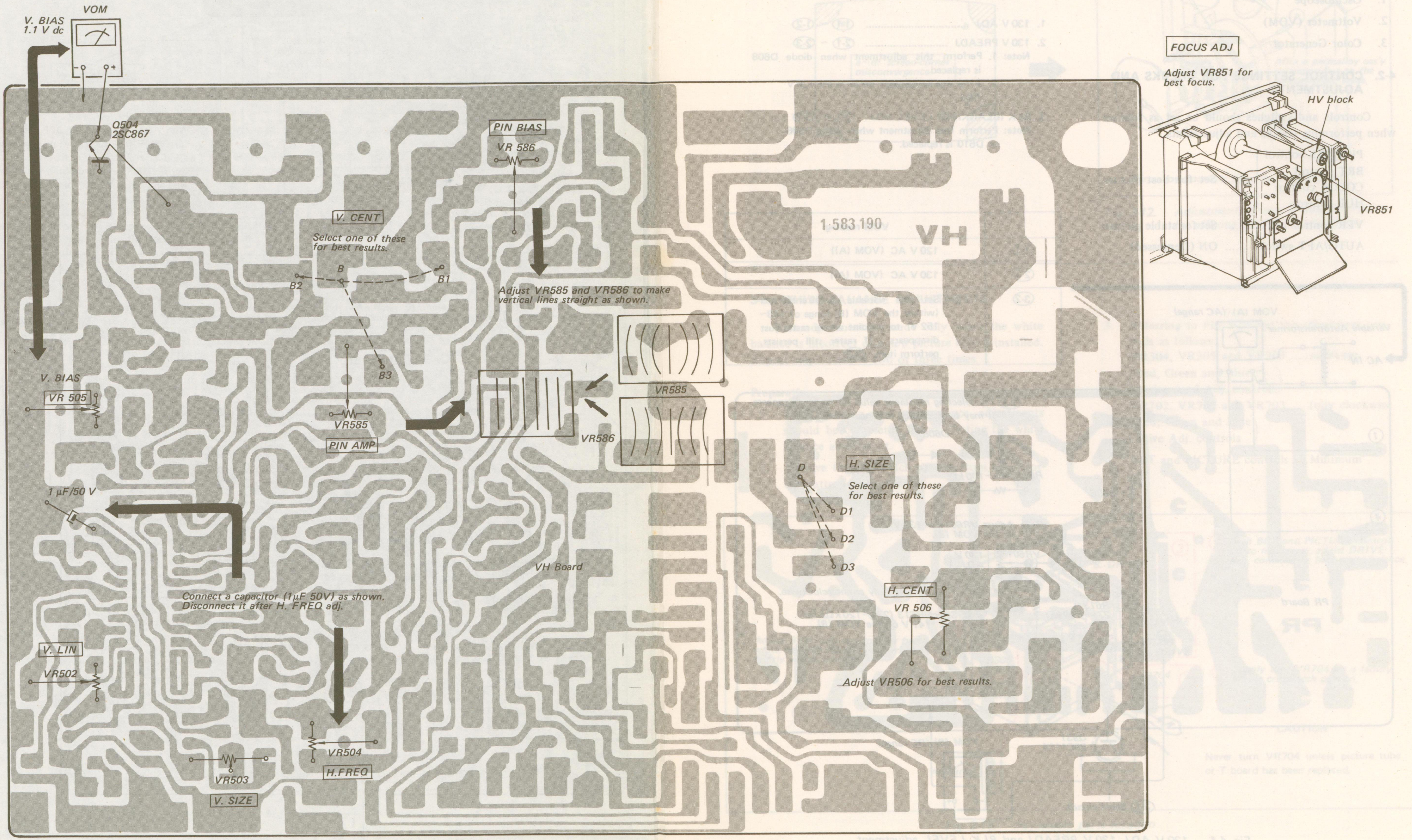
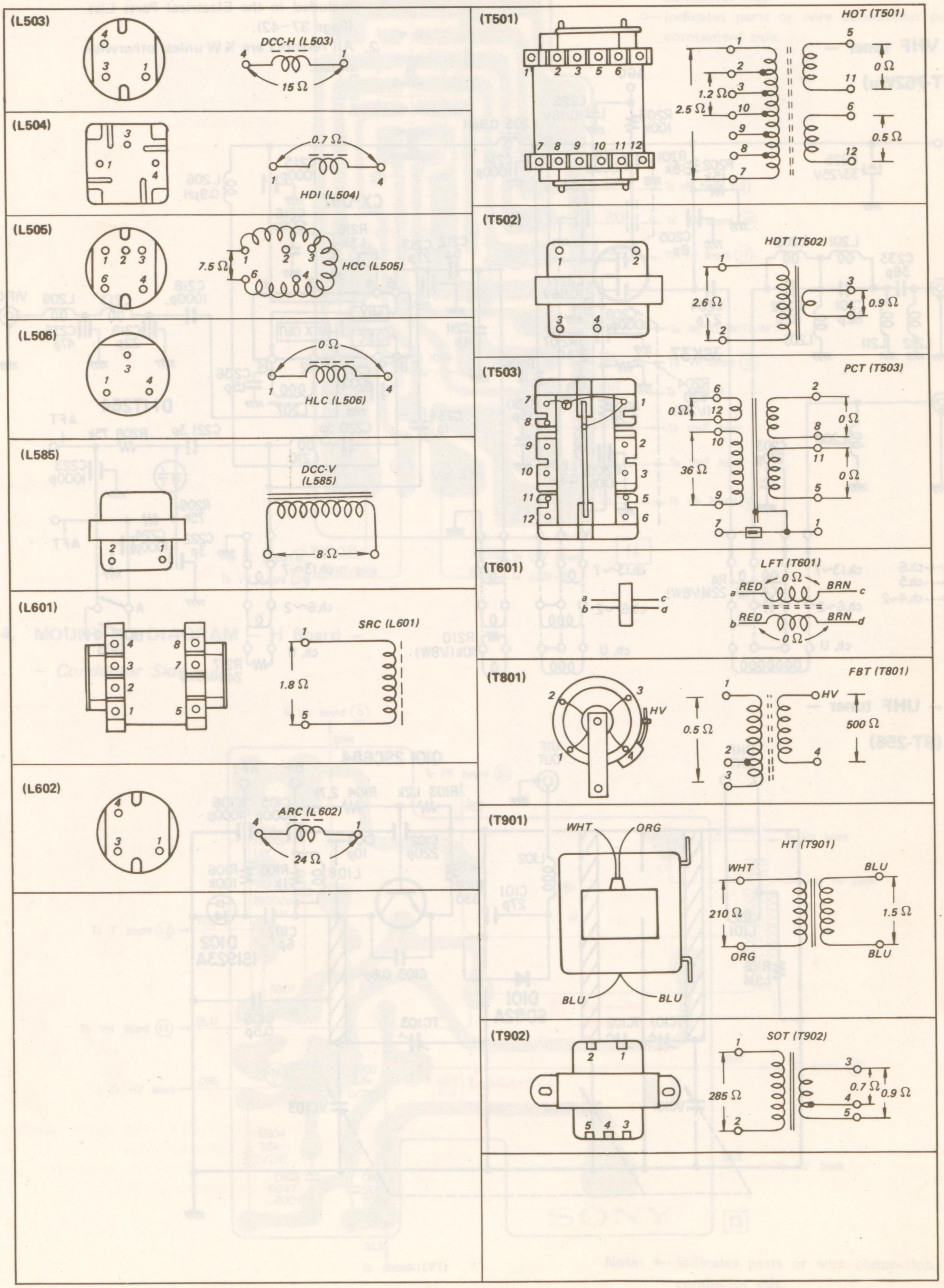

VOM
V. BIAS
1.1 V dc
Q504
2SC867
V. BIAS
VR 505
1 µF/50 V
Connect a capacitor (1µF 50V) as shown.
Disconnect it after H. FREQ adj.
V. LIN
VR502
VR503
V. SIZE
VR504
H.FREQ
V. CENT
Select one of these for best results.
B
B1
B2
B3
VR585
PIN AMP
PIN BIAS
VR 586
Adjust VR585 and VR586 to make vertical lines straight as shown.
VR585
VR586
VH Board
1-583 190
VH
H. SIZE
Select one of these for best results.
D
D1
D2
D3
H. CENT
VR 506
Adjust VR506 for best results.
FOCUS ADJ
Adjust VR851 for best focus.
HV block
VR851

Fig. 4-3. Deflection circuit adjustment

SECTION 6
DIAGRAMS

6-1. DC RESISTANCE AND WINDING DIAGRAMS OF COILS AND TRANSFORMERS



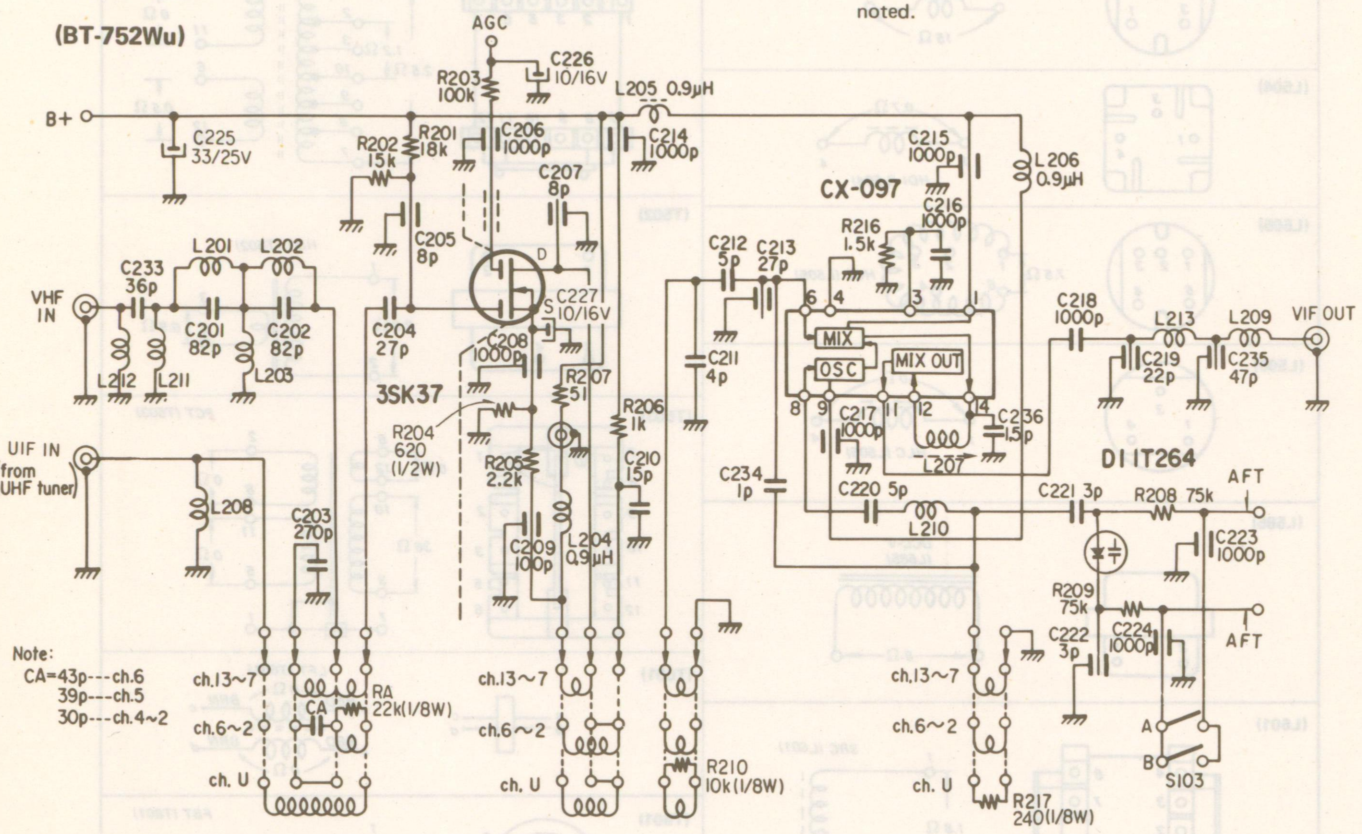
6-2. VHF AND UHF TUNER SCHEMATIC DIAGRAMS

Note: 1. Tuner reference numbers are not included in the Electrical Parts List (Page 37~42).

2. All resistors are ¼ W unless otherwise noted.

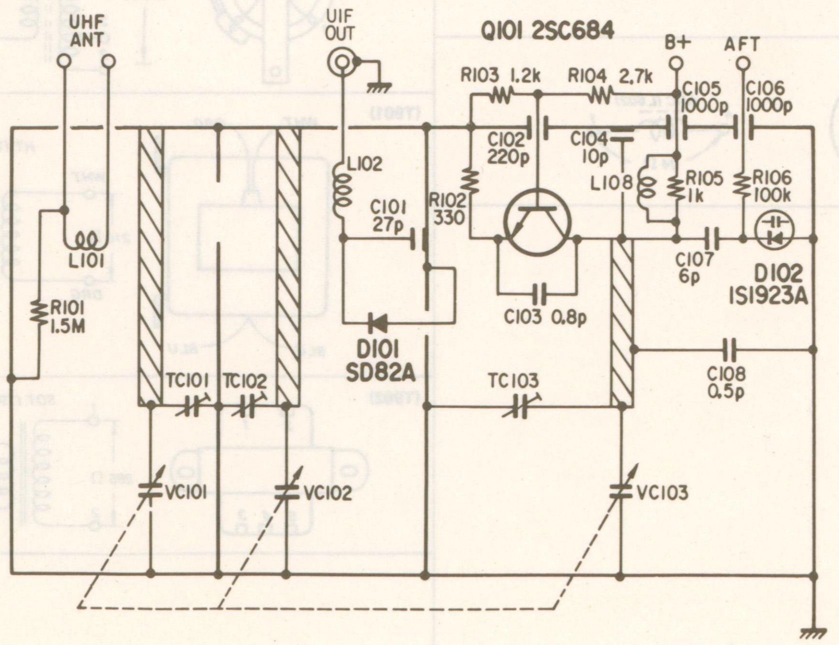
– VHF tuner –

(BT-752Wu)



– UHF tuner –

(BT-256)

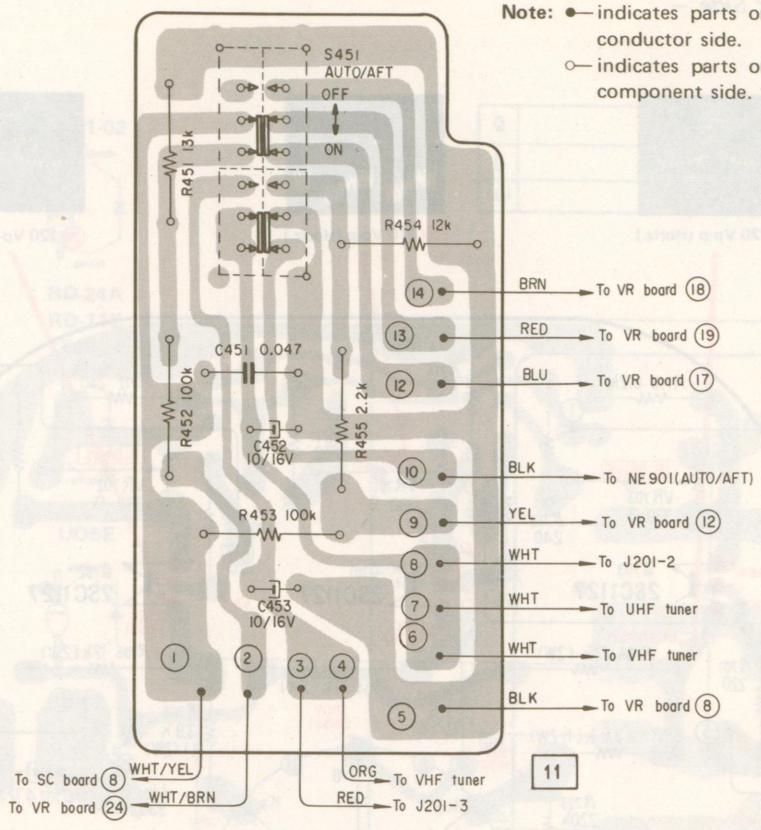


6-3. MOUNTING DIAGRAM – W Board –

– Conductor Side –

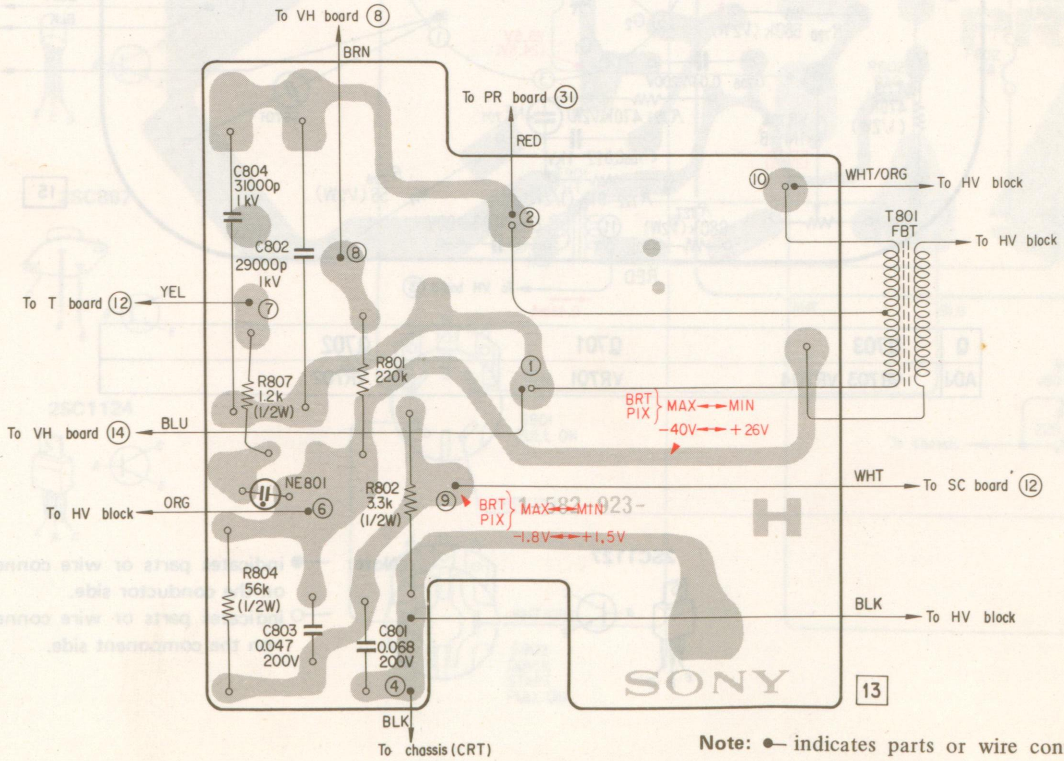
Note: •— indicates parts or wire connection point on the conductor side.

○— indicates parts or wire connection point on the component side.



6-4. MOUNTING DIAGRAM – H Board –

– Conductor Side –

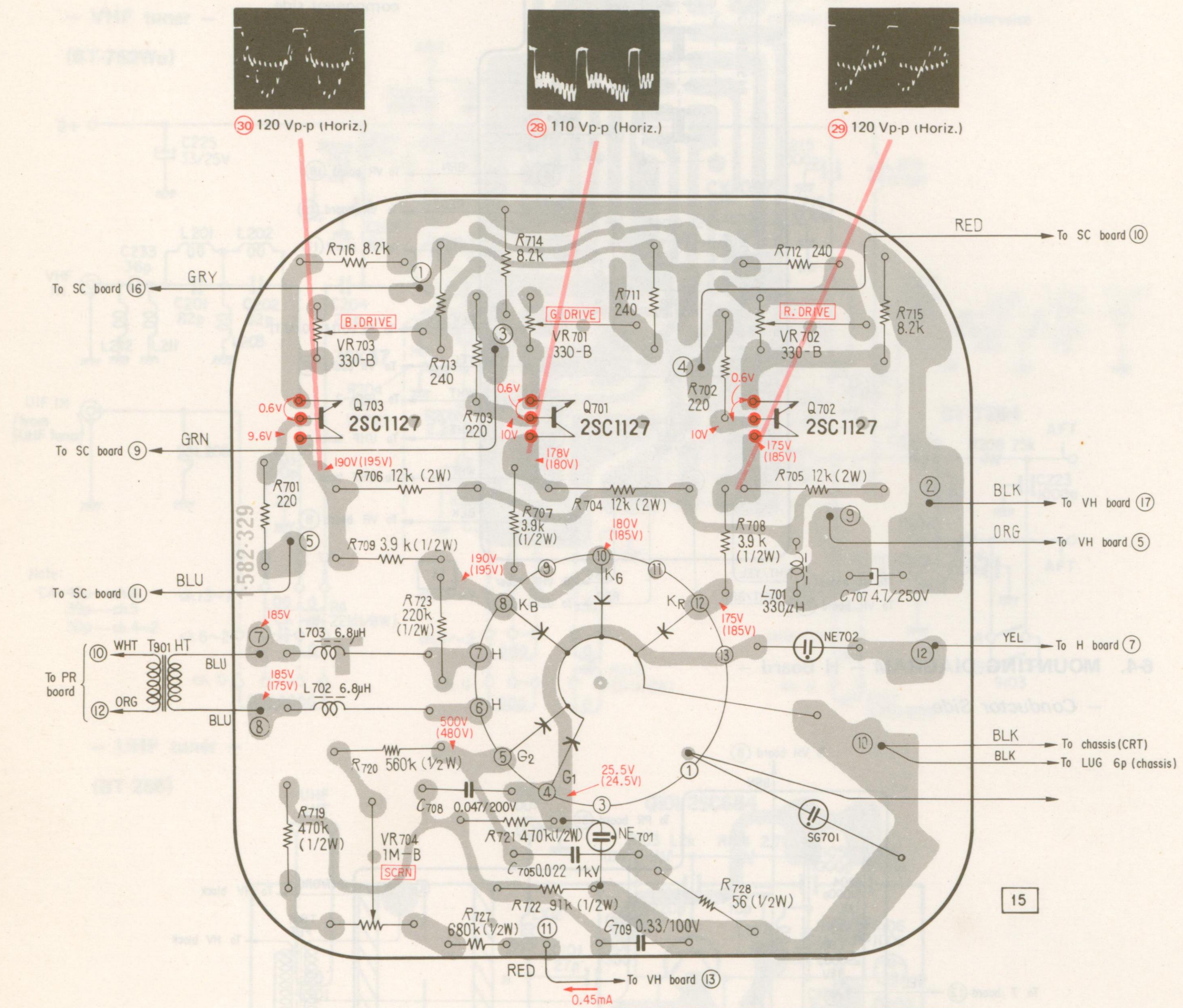


Note: •— indicates parts or wire connection point on the conductor side.

○— indicates parts or wire connection point on the component side.

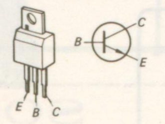
6-5. MOUNTING DIAGRAM – T Board –

– Conductor Side –



Q	Q703	Q701	Q702
ADJ	VR703 VR704	VR701	VR702

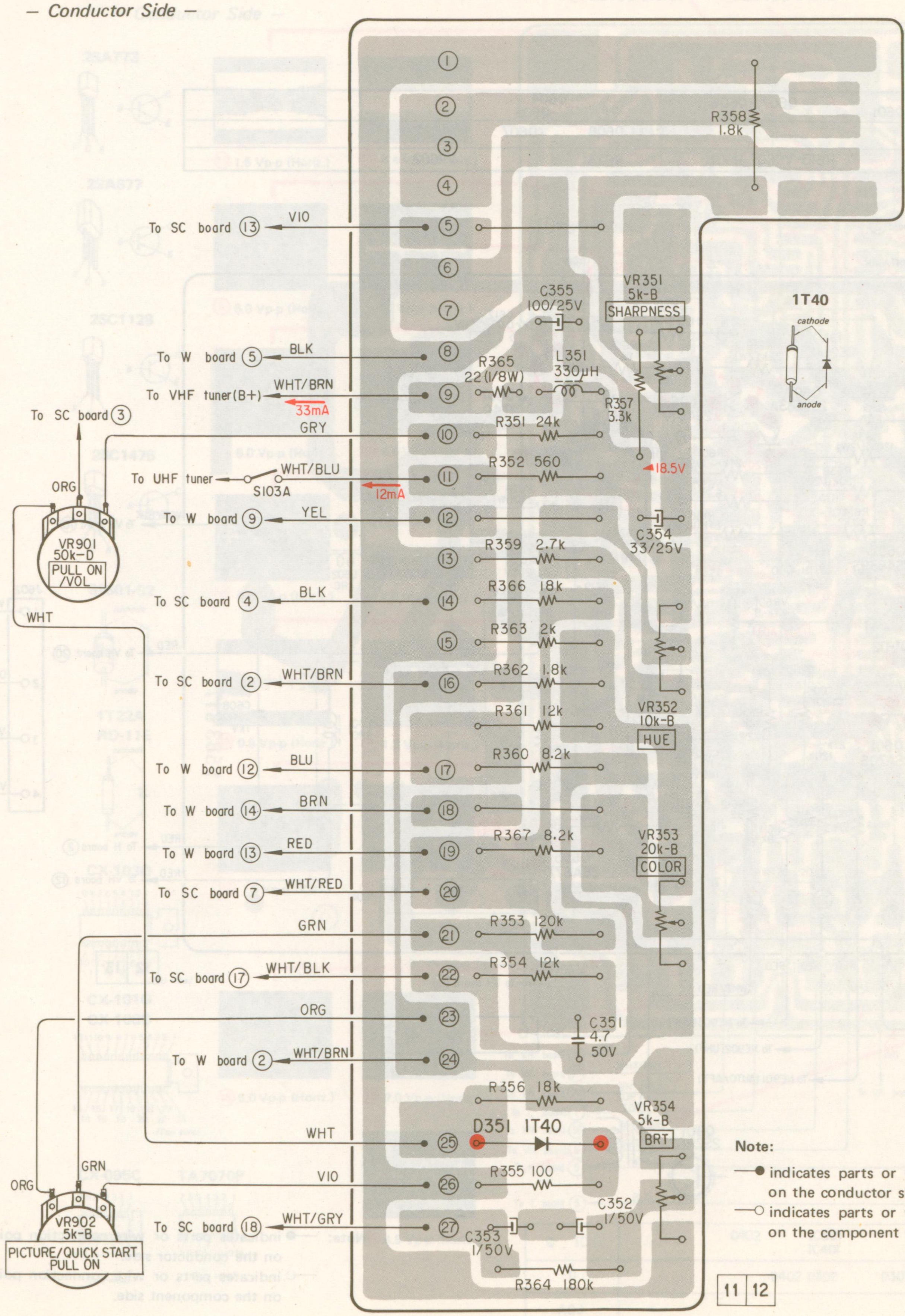
2SC1127



Note: —● indicates parts or wire connection point on the conductor side.
—○ indicates parts or wire connection point on the component side.

6-6. MOUNTING DIAGRAM – VR Board –

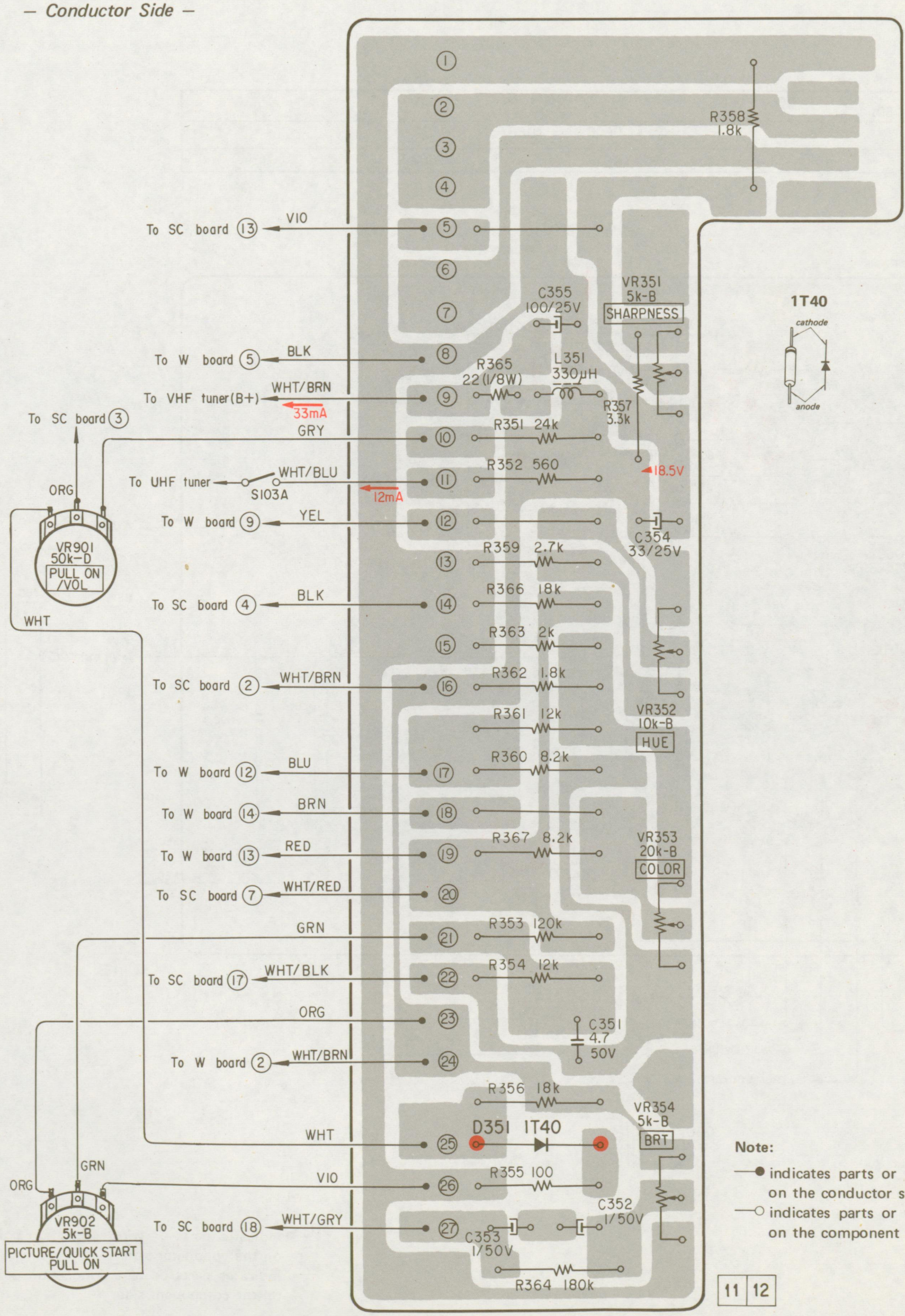
– Conductor Side –



Note:
—● indicates parts or wire connection point on the conductor side.
—○ indicates parts or wire connection point on the component side.

6-6. MOUNTING DIAGRAM – VR Board –

– Conductor Side –



Note:

—● indicates parts or wire connection point on the conductor side.

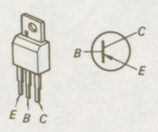
—○ indicates parts or wire connection point on the component side.

MEMO

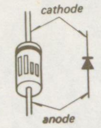
6-7. MOUNTING DIAGRAM – PR Board –

– Conductor Side –

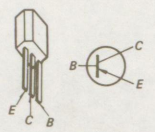
2SA706



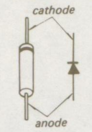
SIB01-02



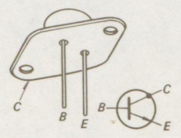
2SA677



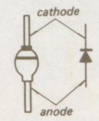
RD-24A
RD-11E
1T40



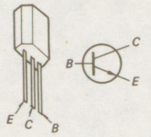
2SC1114



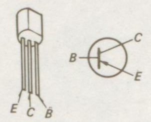
U05E



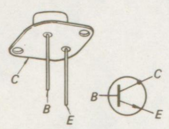
2SC633A



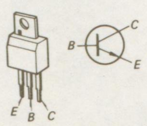
2SA639S



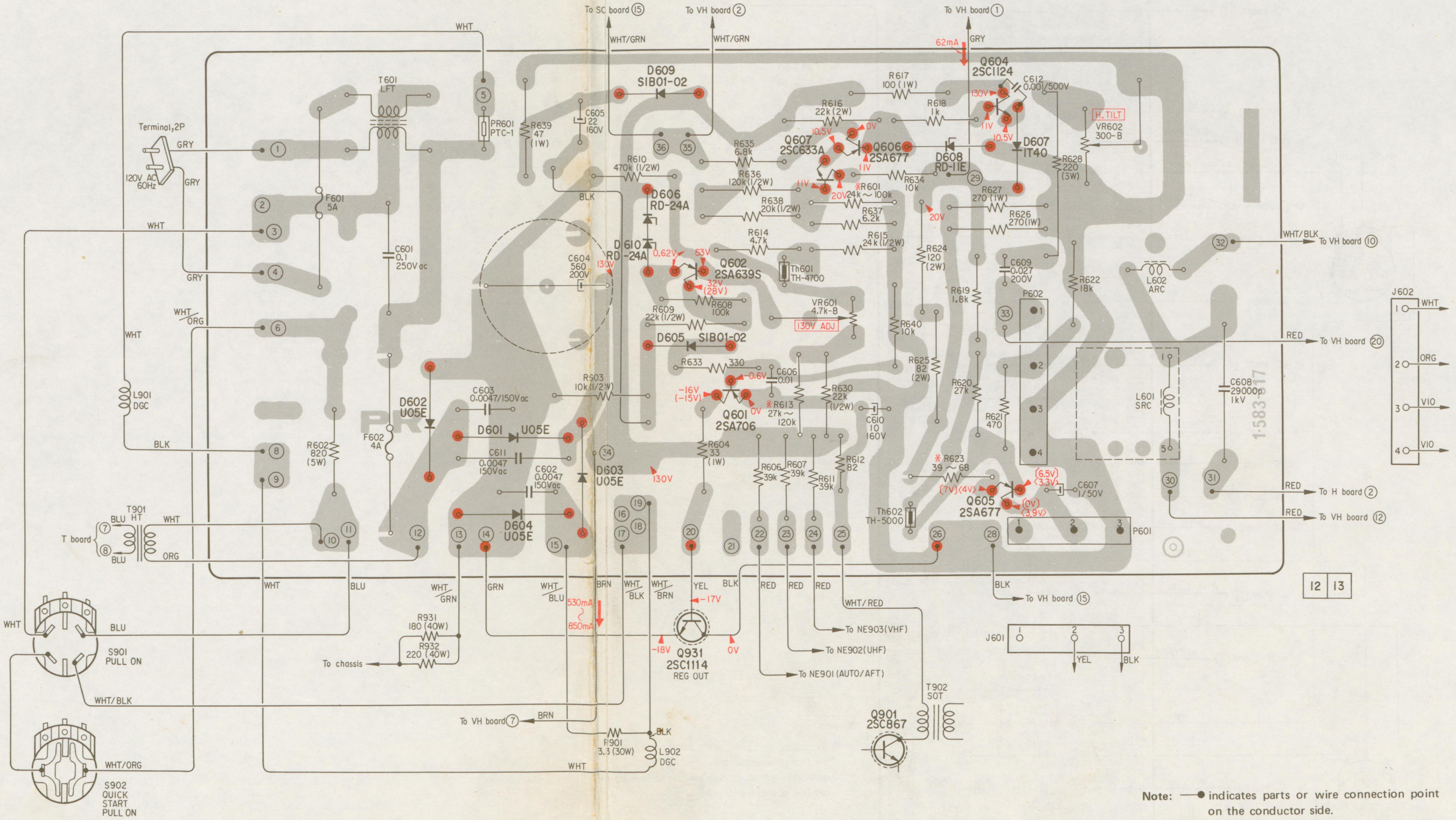
2SC867



2SC1124



Q	Q602 Q601 Q607 Q606 Q604 Q605
D	D602 D601 D604 D603 D610 D609 D606 D605 D608 D607
ADJ	R613 VR601 R601 R623 VR602

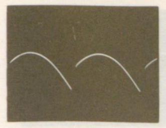


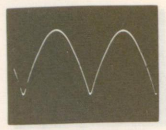
Note: —● indicates parts or wire connection point on the conductor side.
—○ indicates parts or wire connection point on the component side.

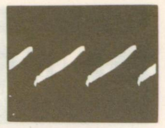
6-8. MOUNTING DIAGRAM — VH Board —

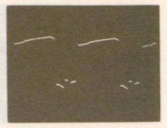
— Conductor Side —

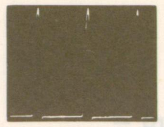
Q, IC	Q504	Q501 IC501	Q502		Q503		Q586 Q509 Q508				Q510
D					D502 D504 D503 D505	D513	D592	D514	D516 D515	D585	D517 D510 D521 D520
ADJ	VR505 VR502	VR501		VR503	VR504 VR585		VR586				VR506


(46) 150 Vp-p (Vert.)

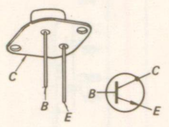

(53) 5.8 Vp-p (Vert.)

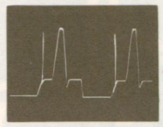

(54) 28 Vp-p (Vert.)


(50) 20 Vp-p (Horiz.)

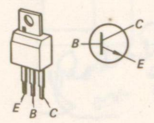

(51) 1050 Vp-p (Horiz.)

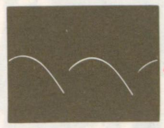
2SC867



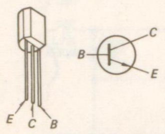

(49) 6.2 Vp-p (Horiz.)

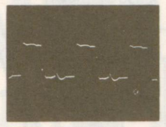
2SC1124



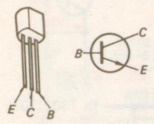

(45) 130 Vp-p (Vert.)

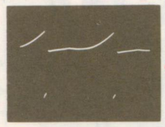
2SC1363



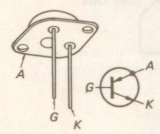

(48) 6.0 Vp-p (Horiz.)

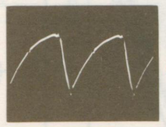
2SC1475



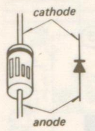

(44) 13 Vp-p (Vert.)

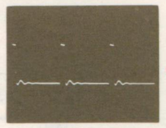
SG-613



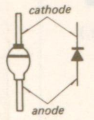

(40) 0.9 Vp-p (Horiz.)

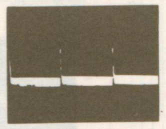
SIB01-02

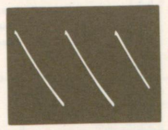



(39) 3.0 Vp-p (Horiz.)

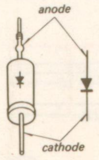
V-11N

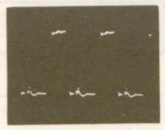


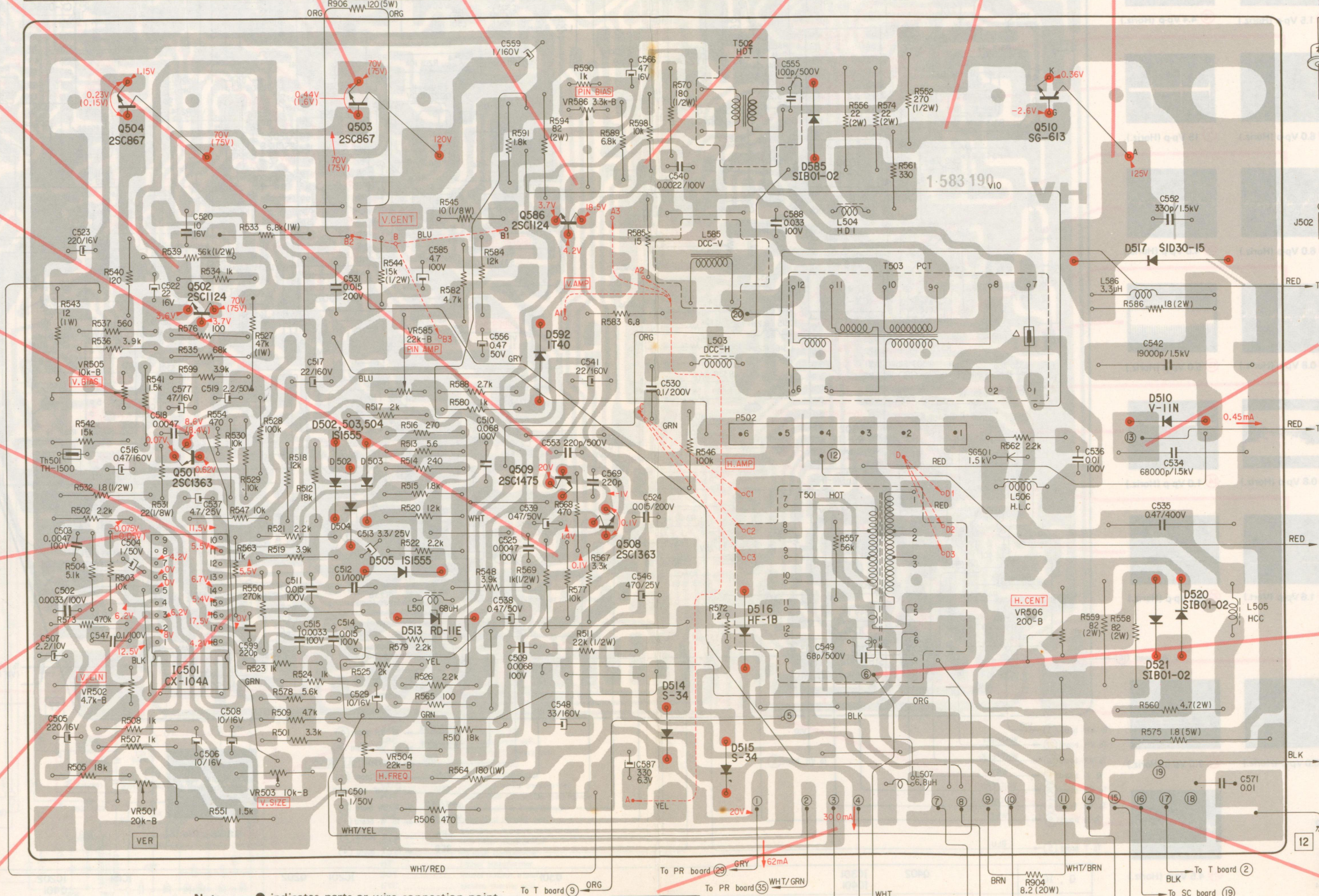

(41) 1.3 Vp-p (Vert.)


(42) 2.9 Vp-p (Vert.)

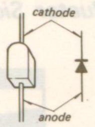
SID30-15



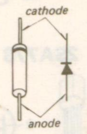

(43) 6.0 Vp-p (Horiz.)



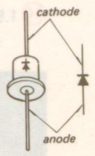
HF-1B



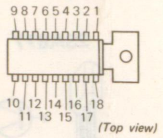
1T40
RD-11E
1S1555

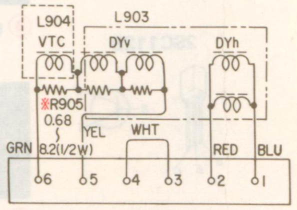


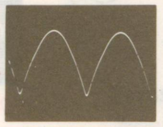
S-34

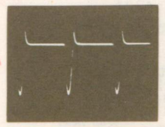


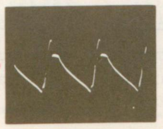
CX-104A

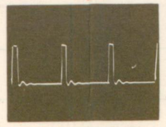





(55) 40 Vp-p (Vert.)


(52) 53 Vp-p (Horiz.)


(56) 14 Vp-p (Horiz.)

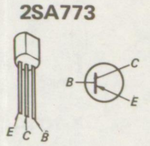

(47) 1.2 Vp-p (Horiz.)

Note: —● indicates parts or wire connection point on the conductor side.
—○ indicates parts or wire connection point on the component side.

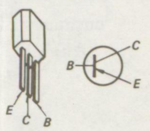
6-9. MOUNTING DIAGRAM – SC Board –

– Conductor Side –

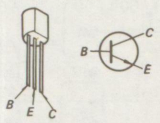
2SA773



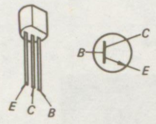
2SA677



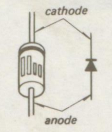
2SC1128



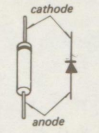
2SC1475



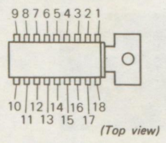
SIB01-02



1T22A
RD-11E



CX-103D



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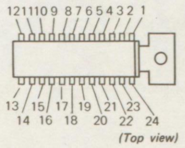
CX-100B



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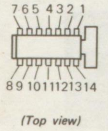

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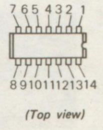
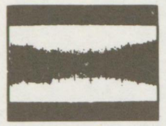
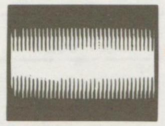
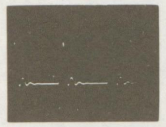
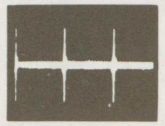
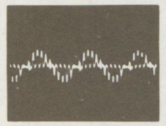
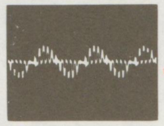
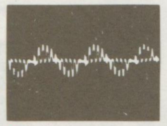
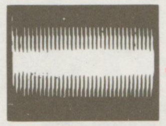
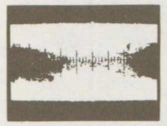
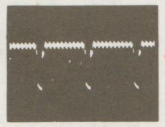
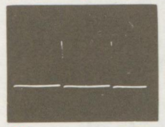
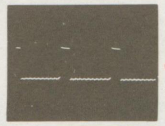
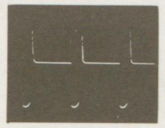
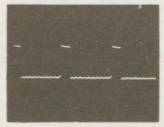
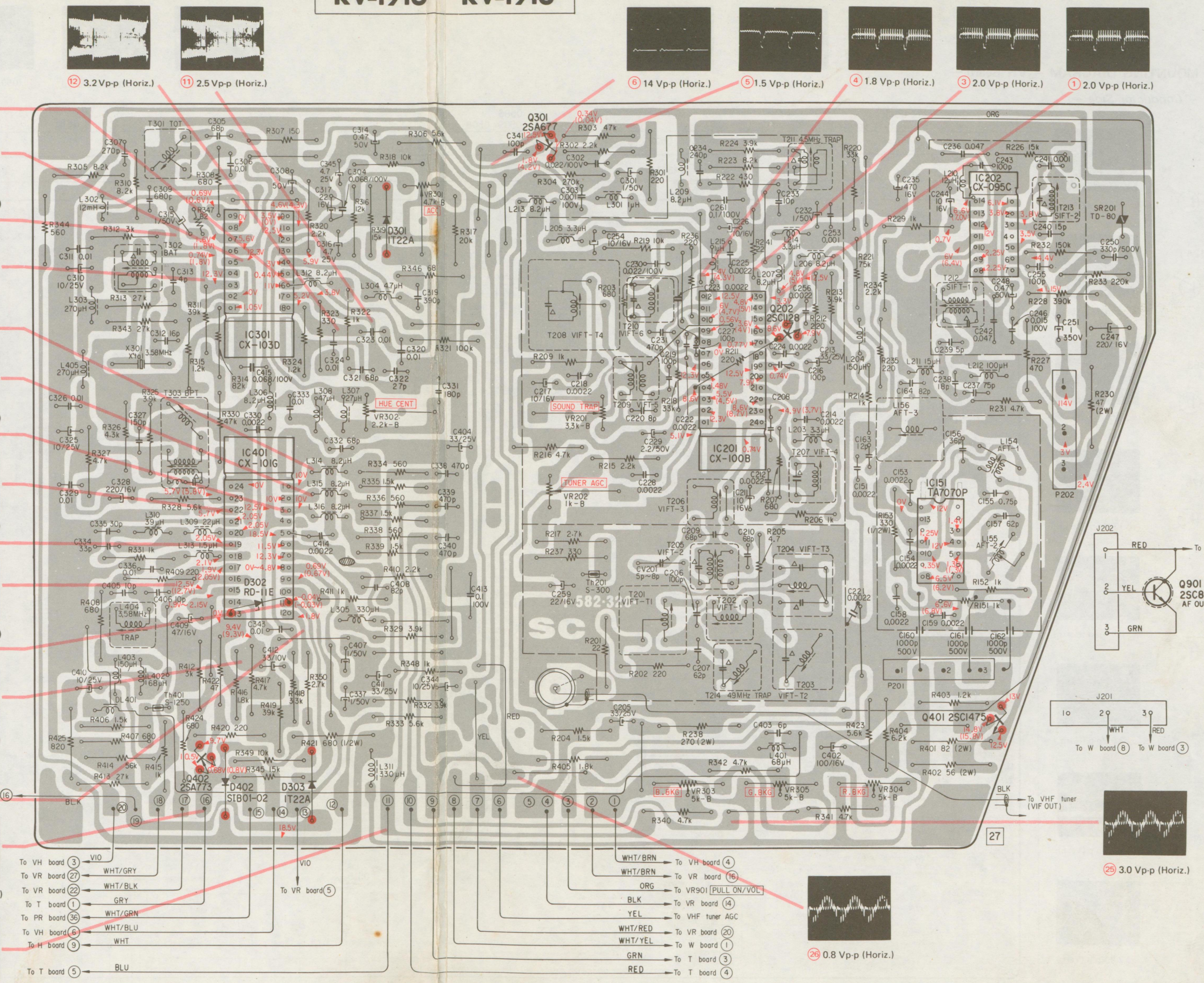
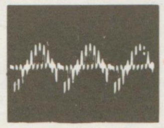


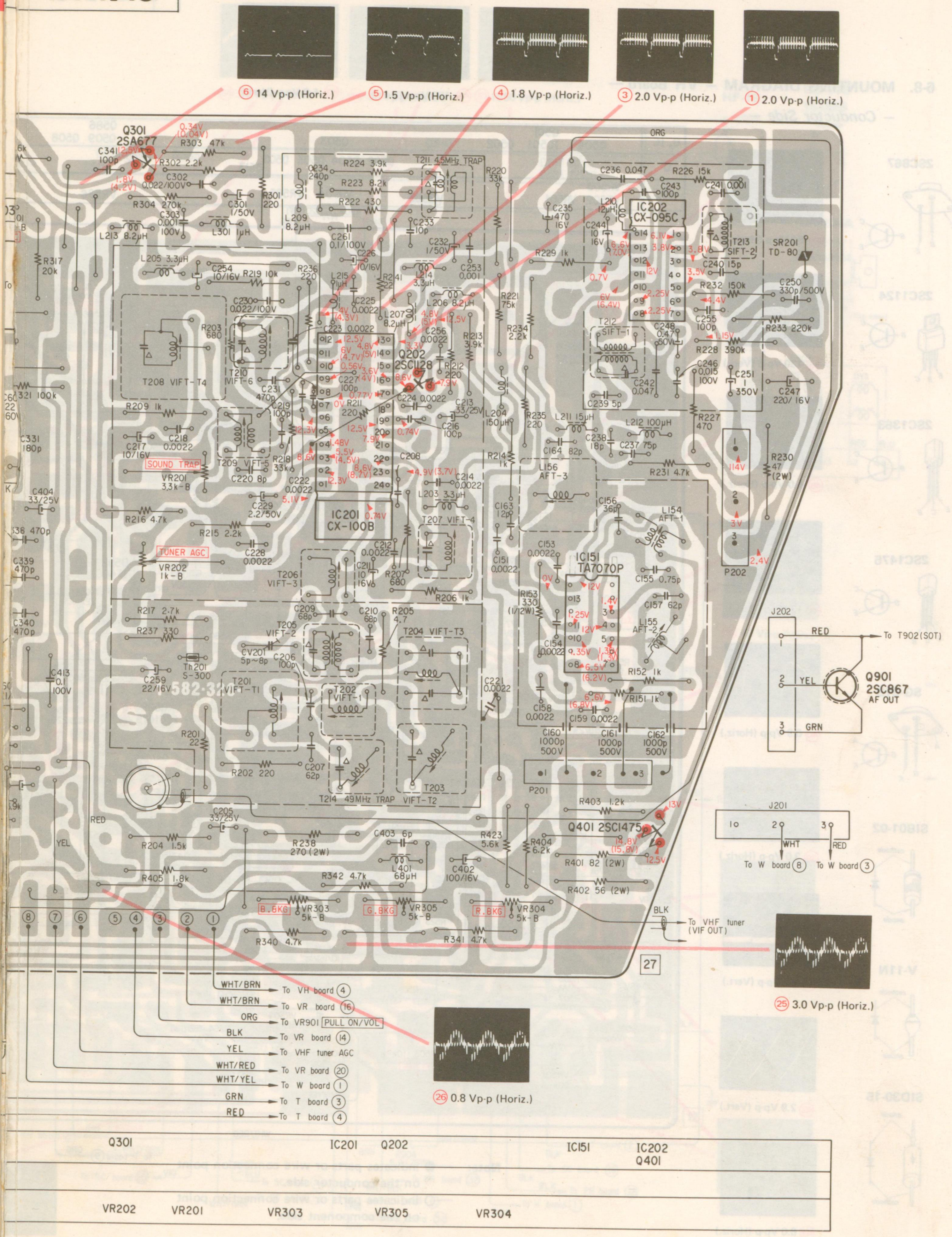

















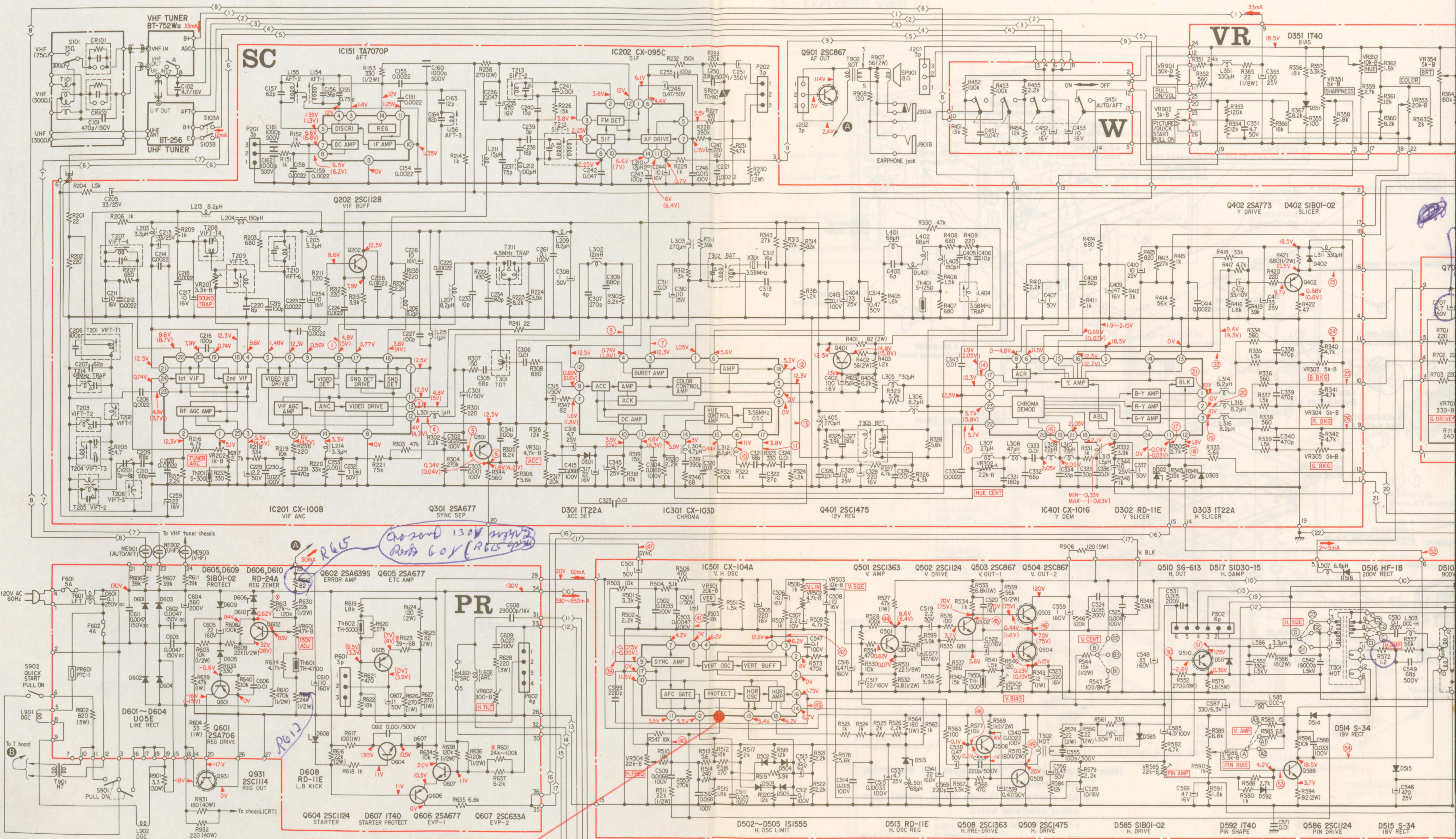


㉔ 4.5 Vp-p (Horiz.)

Q , IC	Q402	IC301 IC401				Q301			IC201	Q202		IC151	IC202 Q401
D	D402	D302	D303		D301								
ADJ				VR302	VR301	VR202	VR201	VR303		VR305	VR304		


⑥ 14 Vp-p (Horiz.)
⑤ 1.5 Vp-p (Horiz.)
④ 1.8 Vp-p (Horiz.)
③ 2.0 Vp-p (Horiz.)
① 2.0 Vp-p (Horiz.)
Q301 2SA677
Q202 2SC1128
IC201 CX-100B
IC202 CX-095C
IC151 TA7070P
Q401 2SC1475
Q901 2SC867 AF OUT
T211 4.5MHz TRAP
T208 VIFT-T4
T210 VIFT-6
T209 VIFT-5
T207 VIFT-4
T206 VIFT-3
T205 VIFT-2
T204 VIFT-T3
T201 VIFT-T1
T202 VIFT-1
T214 49MHz TRAP
T203 VIFT-T2
T212 SIFT-1
T213 SIFT-2
L156 AFT-3
L154 AFT-1
L155 AFT-2
SR201 TD-80
SOUND TRAP
TUNER AGC
VR201 3.3k-B
VR202 1k-B
B.BKG VR303 5k-B
G.BKG VR305 5k-B
R.BKG VR304 5k-B
P201
P202
J202
RED To T902(SOT)
YEL
GRN
J201
WHT To W board ⑧
RED To W board ③
BLK To VHF tuner (VIF OUT)
27
WHT/BRN To VH board ④
WHT/BRN To VR board ⑯
ORG To VR901 PULL ON/VOL
BLK To VR board ⑭
YEL To VHF tuner AGC
WHT/RED To VR board ⑳
WHT/YEL To W board ①
GRN To T board ③
RED To T board ④
㉖ 0.8 Vp-p (Horiz.)
㉕ 3.0 Vp-p (Horiz.)
Q301
IC201
Q202
IC151
IC202
Q401
VR202
VR201
VR303
VR305
VR304

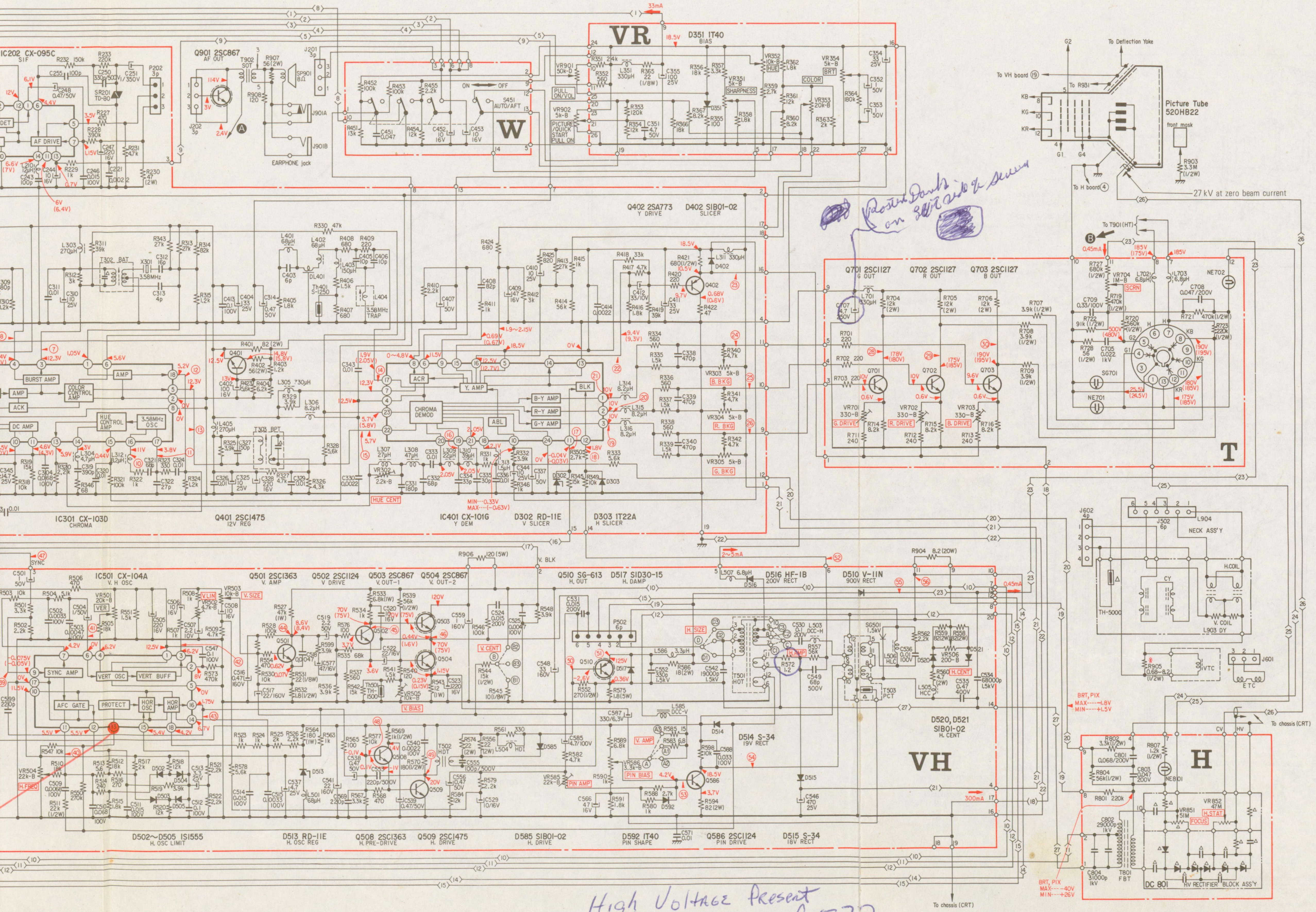
6-10. SCHEMATIC DIAGRAM



CAUTION

Do not touch IC lead ⑬ with the probe of VOM set to a lower range than 5 V.

High Voltage Present
No Pic
No Sound
No 18V Source
OPEN R57



Raster Dark on left side of screen

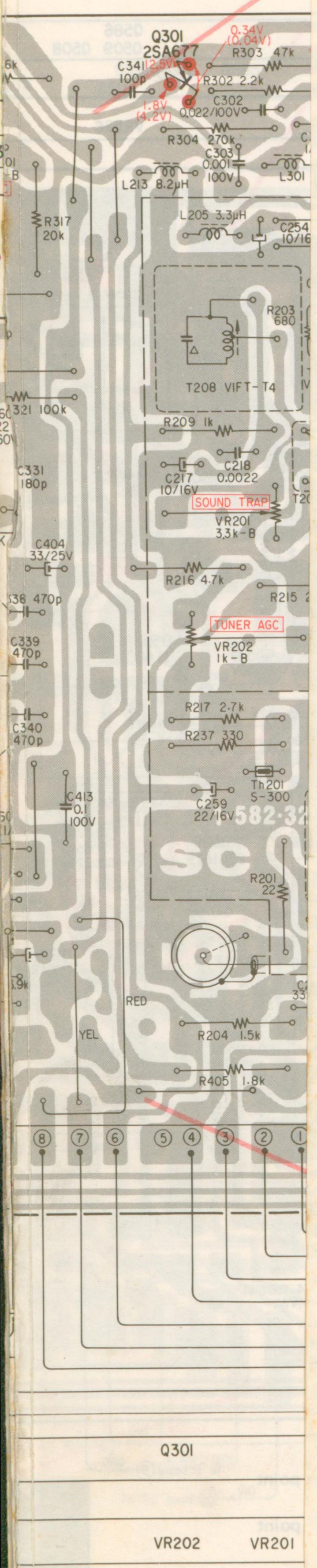
High Voltage Present
No Pic
No Sound
No 18V Source

OPEN R572

Note: All capacitors are in μF unless otherwise noted. p = μμF.
All resistors are in ohms, ¼ W unless otherwise noted.
k = 1000 M = 1000 k
※ indicates values to be selected.
△ indicates internal components.
Voltages are dc with respect to ground unless otherwise noted. Readings are with a color-bar signal applied.
Readings in ( ) are taken under no-signal conditions with a 20,000-ohm-per-volt VOM.
Voltage variations may be noted due to normal production tolerances.
[ ] in PR board: Reading immediately after power switch is depressed.
< > in PR board: Reading after three-hour or more lapse.
The magenta-circled numbers (① ~ (56)) refer to waveforms shown on mounting diagrams.
⏚ indicates chassis ground.

Abbreviations for Coils and Transformers used in KV-1910.

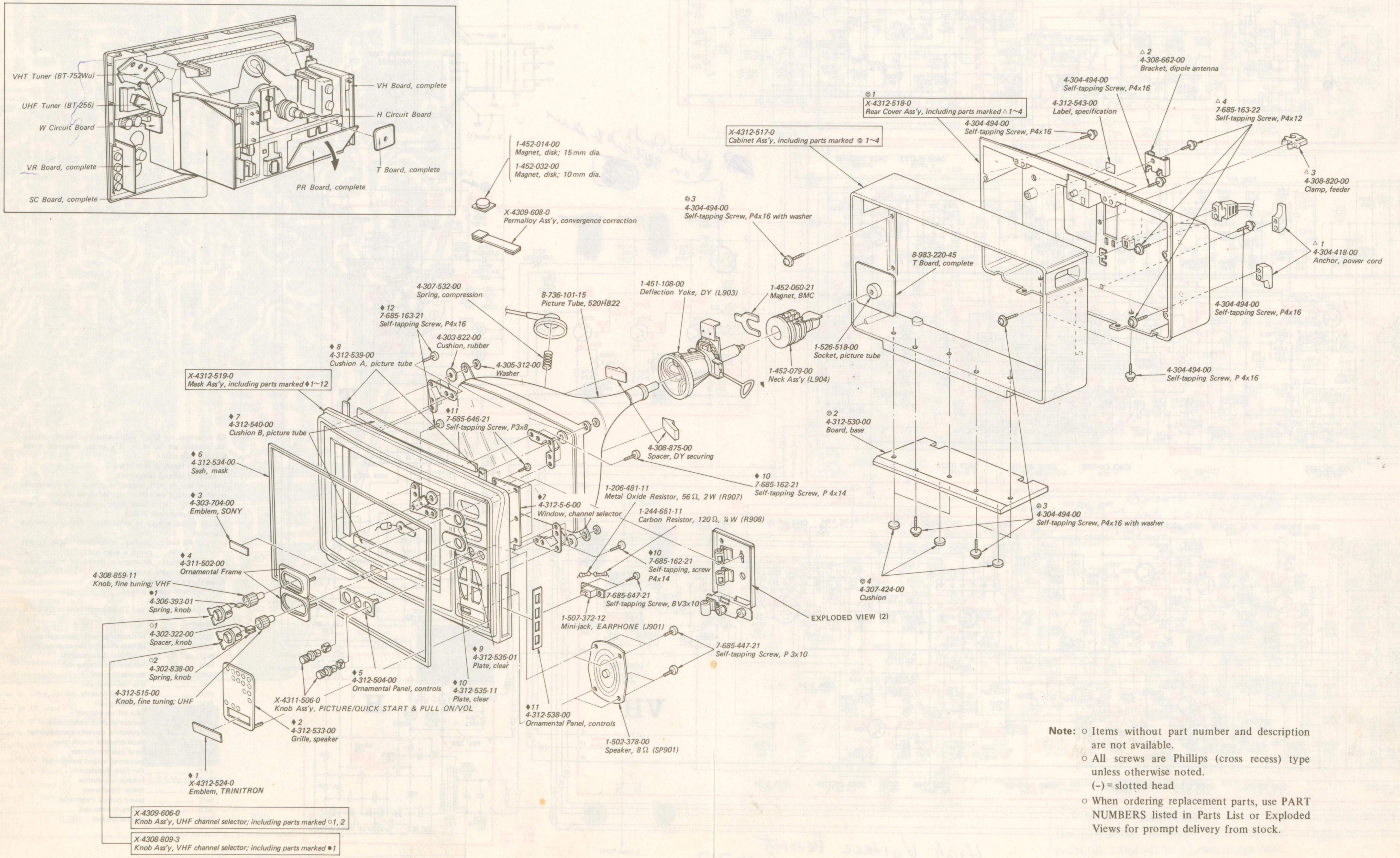
Abbreviation	Terms
DCC-H	horizontal dynamic convergence coil
DCC-V	vertical dynamic convergence coil
HDI	horizontal drive inductor
HCC	horizontal centering coil
ARC	arc reactive coil
SRC	sine resonance coil
HLC	horizontal linearity coil
DGC	degaussing coil
TOT	take off transformer
HDT	horizontal drive transformer
PCT	pincushion correction transformer
BAT	burst amplifier transformer
BPT	band pass transformer
HOT	horizontal output transformer
LFT	line filter transformer
FBT	flyback transformer
HT	heater transformer
SOT	sound output transformer
ETC	electro thermo coil
VTC	vertical tilt coil



22-1140

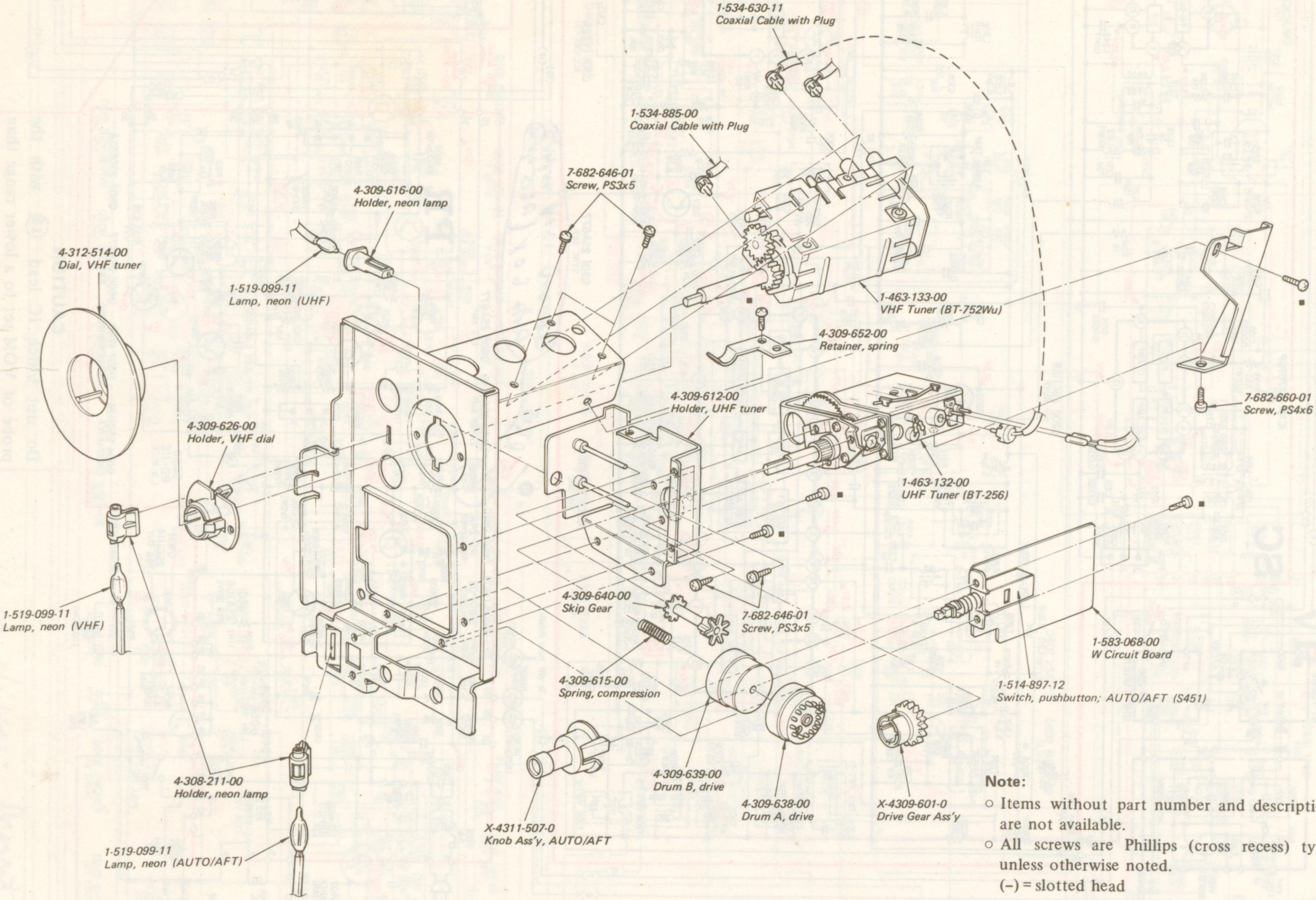
SECTION 7
EXPLODED VIEWS

7-1. EXPLODED VIEW (1)



Note:
- ○ Items without part number and description are not available.
- ○ All screws are Phillips (cross recess) type unless otherwise noted.
  (-) = slotted head
- ○ When ordering replacement parts, use PART NUMBERS listed in Parts List or Exploded Views for prompt delivery from stock.

7-2. EXPLODED VIEW (2)



Note:

- ○ Items without part number and description are not available.
- ○ All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
- ○ When ordering replacement parts, use PART NUMBERS listed in Parts List or Exploded Views for prompt delivery from stock.
- ○ ■ *7-685-646-21*
  BV 3x8, self-tapping

SECTION 8
ELECTRICAL PARTS LIST

TUNERS AND CIRCUIT BOARDS

Ref. No.	*Part No.*	*Description*	
	1-463-132-00	UHF Tuner (BT-256)	
	1-463-133-00	VHF Tuner (BT-752 Wu)	
	1-582-923-00	H Circuit Board	
	1-583-068-00	W Circuit Board	
	8-983-219-55	VR Board, complete	
	8-983-220-45	T Board, complete	
	8-983-520-25	VH Board, complete	
	8-983-520-35	PR Board, complete	
	8-983-788-15	SC Board, complete	

SEMICONDUCTORS

Transistors (incl. GCS, FET), diodes and ICs are omitted. Refer to schematic diagram for type numbers.

Ref. No.	*Part No.*	*Description*	
PR601	1-800-065-00	Posistor	PTC-1
SR201	1-800-032-00	Varistor	TD-80
Th201	1-800-196-00	Thermistor	S-300
Th401	1-800-199-00	Thermistor	S-1250
Th501	1-800-069-00	Thermistor	TH-1500
Th601	1-800-070-00	Thermistor	TH-4700
Th602	1-800-279-00	Thermistor	TH-5000

COILS

Ref. No.	*Part No.*	*Description*	
L154	1-403-904-00	Transformer, automatic fine tuning; AFT-1	
L155	1-403-905-00	Transformer, automatic fine tuning; AFT-2	
L156	1-403-703-00	Transformer, automatic fine tuning; AFT-3	
L203	1-407-687-00	3.3 μH	microinductor
L204	1-407-707-00	150 μH	
L205	1-407-687-00	3.3 μH	
L206	1-407-692-00	8.2 μH	
L207			
L209			
L210	1-407-694-00	12 μH	microinductor
L211	1-407-695-00	15 μH	
L212	1-407-705-00	100 μH	
L213	1-407-692-00	8.2 μH	
L214	1-407-687-00	3.3 μH	microinductor
L215	1-407-681-00	1 μH	
L301	1-407-681-00	1 μH	microinductor
L302	1-407-207-00	12 mH	microinductor
L303	1-407-710-00	270 μH	microinductor
L304	1-407-689-00	4.7 μH	
L305	1-407-711-00	330 μH	
L306	1-407-189-00	8.2 μH, microinductor	
L307	1-407-698-00	27 μH	microinductor
L308	1-407-701-00	47 μH	
L309	1-407-697-00	22 μH	
L310	1-407-700-00	39 μH	
L311	1-407-711-00	330 μH	microinductor
L312	1-407-692-00	8.2 μH	
L313	1-407-683-00	1.5 μH	
L314	1-407-692-00	8.2 μH	
L315			
L316			
L351	1-407-711-00	330 μH, microinductor	
L401	1-407-703-00	68 μH	microinductor
L402			
L403	1-407-707-00	150 μH	
L404	1-409-193-00	Trap, 3.58 MHz	
L405	1-407-710-00	270 μH, microinductor	
L501	1-407-167-00	68 μH, microinductor	
L503	1-459-115-00	24 mH, horizontal dynamic convergence, DCC-H	
L504	1-459-137-00	470 μH, horizontal drive inductor, HDI	
L505	1-459-112-00	horizontal centering, HCC	
L506	1-459-136-00	horizontal linearity, HLC	
L507	1-407-188-00	6.8 μH, microinductor	
L585	1-443-012-00	vertical dynamic convergence, DCC-V	
L586	1-407-780-00	3.3 μH, spook choke	
L601	1-413-021-00	4.5 mH, sine resonance, SRC	
L602	1-459-118-00	33 mH, arc reactive, ARC	
L701	1-407-711-00	330 μH, microinductor	
L702	1-407-556-00	6.8 μH, spook choke	
L703			
L901	1-425-783-00	Degaussing, DGC	
L902			
L903	1-451-108-00	Deflection Yoke, DY	
L904	1-452-079-00	Neck Ass'y	
DL401	1-415-047-00	Delay Line	

TRANSFORMERS

Ref. No.	*Part No.*	*Description*
T101	1-417-033-22	Balun, rf input
T201	1-409-213-00	Video i-f, VIFT-T1
T202	1-403-909-00	Video i-f, VIFT-1
T203	1-409-264-00	Video i-f, VIFT-T2
T204	1-409-219-00	Video i-f, VIFT-T3
T205	1-403-925-00	Video i-f, VIFT-2
T206	1-403-927-00	Video i-f, VIFT-3
T207	1-403-928-00	Video i-f, VIFT-4
T208	1-409-263-00	Video i-f, VIFT-T4
T209	1-403-926-00	Video i-f, VIFT-5
T210	1-403-924-00	Video i-f, VIFT-6
T211	1-409-146-00	Coil, trap; 4.5 MHz
T212	1-403-866-00	Sound i-f, SIFT-1
T213	1-403-871-00	Sound i-f, SIFT-2
T214	1-409-262-00	Coil, trap; 49 MHz
T301	1-425-784-00	Take-off, TOT
T302	1-425-785-00	Burst Amplifier, BAT
T303	1-425-786-00	Band Pass, BPT
T501	1-439-141-00	Horizontal Output, HOT
T502	1-437-049-00	Horizontal Drive, HDT
T503	1-421-226-00	Pincushion Correction, PCT
T601	1-421-302-00	Line Filter, LFT
T801	1-439-149-00	Flyback, FBT
T901	1-442-142-12	Heater, HT
T902	1-427-354-00	Sound Output, SOT

CAPACITORS

All capacitors are in μF, 50V, ceramic unless otherwise noted. p = μμF elect = electrolytic

Ref. No.	*Part No.*	*Description*		
C101	1-102-315-11	470 p	150 V	(included in antenna terminal ass'y)
C102	1-121-257-11	4.7	16 V	elect, non-polarized
C151 C153 C154	1-102-121-11	0.0022		
C155	1-101-586-11	0.75 p		
C156	1-102-519-11	36 p		
C157	1-102-493-11	62 p		
C158 C159	1-102-121-11	0.0022		
C160 C161 C162	1-102-043-11	1000 p	500 V	feedthrough
C163	1-102-949-11	12 p		
C164	1-102-863-11	82 p		
C205	1-121-404-11	33	25 V	elect
C206	1-102-529-11	100 p		
C207	1-102-849-11	62 p		
C208	1-102-121-11	0.0022		
C209 C210	1-102-676-11	68 p		
C211	1-121-651-11	10	16 V	elect
C212	1-102-121-11	0.0022		
C213	1-121-404-11	33	25 V	elect
C214	1-102-121-11	0.0022		
C216	1-102-973-11	100 p		
C217	1-121-651-11	10	16 V	elect
C218	1-102-121-11	0.0022		
C219	1-102-973-11	100 p		
C220	1-102-663-11	8 p		
C221 C222 C223 C224 C225	1-102-121-11	0.0022		
C226	1-121-651-11	10	16 V	elect
C227	1-102-973-11	100 p		
C228	1-102-121-11	0.0022		
C229	1-121-450-11	2.2	50 V	elect
C230	1-108-630-31	0.022	100 V	mylar
C231	1-102-114-11	470 p		
C232	1-121-391-11	1	50 V	elect
C233	1-102-947-11	10 p		
C234	1-102-979-11	240 p		
C235	1-121-426-11	470	16 V	elect
C236	1-101-006-11	0.047		
C237	1-101-890-11	75 p		
C238	1-102-953-11	18 p		
C239	1-102-856-11	5 p		
C240	1-102-855-11	15 p		
C241	1-102-074-11	0.001		
C242	1-101-006-11	0.047		
C243	1-102-973-11	100 p		
C244	1-121-651-11	10	16 V	elect
C246	1-108-628-31	0.015	100 V	mylar

Ref. No.	*Part No.*	*Description*		
C247	1-121-421-11	220	16 V	elect
C248	1-121-951-11	0.47	50 V	elect
C250	1-102-030-11	330 p	500 V	
C251	1-121-168-11	1	350 V	elect
C253	1-102-074-11	0.001		
C254	1-121-651-11	10	16 V	elect
C255	1-102-973-11	100 p		
C256	1-102-121-11	0.0022		
C259	1-121-990-11	22	16 V	elect
C261	1-108-638-31	0.1	100 V	mylar
C301	1-121-391-11	1	50 V	elect
C302	1-108-630-31	0.022	100 V	mylar
C303	1-108-614-31	0.001	100 V	mylar
C304	1-108-636-31	0.068	100 V	mylar
C305	1-101-888-11	68 p		
C306	1-101-004-11	0.01		
C307	1-102-980-11	270 p		
C308	1-121-391-11	1	50 V	elect
C309	1-102-116-11	680 p		
C310	1-121-398-11	10	25 V	elect
C311	1-101-004-11	0.01		
C312	1-102-512-11	16 p		
C313	1-102-937-11	4 p		
C314	1-121-726-11	0.47	50 V	elect
C315	1-121-952-11	1	50 V	elect
C316	1-121-961-11	4.7	25 V	elect
C317	1-121-990-11	22	16 V	elect
C319	1-102-330-11	390 p		
C320	1-101-004-11	0.01		
C321	1-101-888-11	68 p		
C322	1-102-961-11	27 p		
C323 C324	1-101-004-11	0.01		
C325	1-121-398-11	10	25 V	elect
C326	1-101-004-11	0.01		
C327	1-102-888-11	150 p		
C328	1-121-421-11	220	16 V	elect
C329	1-101-004-11	0.01		
C330	1-102-121-11	0.0022		
C331	1-102-976-11	180 p		
C332	1-101-888-11	68 p		
C333	1-101-004-11	0.01		
C334	1-102-963-11	33 p		
C335	1-102-962-11	30 p		
C336	1-101-004-11	0.01		
C337	1-121-391-11	1	50 V	elect
C338 C339 C340	1-102-114-11	470 p		
C341	1-102-973-11	100 p		
C343	1-101-004-11	0.01		
C344	1-121-398-11	10	25 V	elect
C345	1-121-961-11	4.7	25 V	elect
C351	1-121-819-11	4.7	50 V	elect, non-polarized
C352 C353	1-121-391-11	1	50 V	elect
C354	1-121-404-11	33	25 V	elect
C355	1-121-416-11	100	25 V	elect
C402	1-121-415-11	100	16 V	elect
C403	1-102-943-11	6 p		
C404	1-121-404-11	33	25 V	elect
C405 C406	1-102-858-11	10 p		
C407	1-121-391-11	1	50 V	elect
C408	1-102-971-11	82 p		
C409	1-121-409-11	47	16 V	elect
C410	1-121-398-11	10	25 V	elect
C411	1-121-404-11	33	25 V	elect
C412	1-121-402-11	33	10 V	elect
C413	1-108-638-31	0.1	100 V	mylar
C414	1-102-121-11	0.0022		
C415	1-108-636-31	0.068	100 V	mylar
C451	1-101-006-11	0.047		
C452 C453	1-121-651-11	10	16 V	elect
C501	1-121-391-11	1	50 V	elect
C502	1-108-620-31	0.0033	100 V	mylar
C503	1-108-622-31	0.0047	100 V	mylar
C504	1-121-391-11	1	50 V	elect
C505	1-121-421-11	220	16 V	elect
C506	1-121-651-11	10	16 V	elect
C507	1-127-024-11	2.2	10 V	solid aluminum
C508	1-121-651-11	10	16 V	elect
C509	1-108-624-31	0.0068	100 V	mylar
C510	1-108-636-31	0.068	100 V	mylar
C511	1-108-628-31	0.015	100 V	mylar
C512	1-108-638-31	0.1	100 V	mylar
C513	1-121-392-11	3.3	25 V	elect
C514	1-129-927-11	0.015	100 V	film

Ref. No.	Part No.	Description
C515	1-106-184-12	0.0033 100 V mylar
C516	1-123-130-11	0.47 160 V elect
C517	1-123-093-11	22 160 V elect
C518	1-102-125-11	0.0047
C519	1-121-450-11	2.2 50 V elect
C520	1-121-806-11	10 16 V elect, non-polarized
C522	1-121-479-11	22 16 V elect
C523	1-121-972-11	220 16 V elect
C524	1-108-694-31	0.015 200 V mylar
C525	1-108-622-31	0.0047 100 V mylar
C529	1-121-651-11	10 16 V elect
C530	1-108-704-31	0.1 200 V mylar
C531	1-108-694-31	0.015 200 V mylar
C534	1-129-953-11	68000 p 1.5 kV film
C535	1-129-997-11	0.47 400 V film
C536	1-108-626-31	0.01 100 V mylar
C537	1-121-395-11	4.7 25 V elect
C538 C539	1-121-726-11	0.47 50 V elect
C540	1-108-618-31	0.0022 100 V mylar
C541	1-123-093-11	22 160 V elect
C542	1-129-960-11	19000 p 1.5 kV film
C546	1-121-733-11	470 25 V elect
C547	1-108-638-31	0.1 100 V mylar
C548	1-123-024-11	33 160 V elect
C549	1-102-989-11	68 p 500 V
C552	1-102-327-11	330 p 1.5 kV
C553	1-102-244-11	220 p 500 V
C555	1-101-810-11	100 p 500 V
C556	1-121-726-11	0.47 50 V elect
C559	1-123-116-11	1 160 V elect
C566	1-121-409-11	47 16 V elect
C569	1-102-110-11	220 p
C571	1-101-004-11	0.01
C577	1-121-409-11	47 16 V elect
C585	1-121-918-11	4.7 100 V elect
C587	1-121-751-11	330 6.3 V elect
C588	1-108-632-31	0.033 100 V mylar
C599	1-102-110-11	220 p
C601	1-108-747-11	0.1 250 V ac mylar
C602 C603	1-102-189-11	0.0047 150 V ac
C604	1-123-138-11	560 200 V elect
C605	1-123-093-11	22 160 V elect
C606	1-101-004-11	0.01
C607	1-121-391-11	1 50 V elect

Ref. No.	Part No.	Description
C608	1-129-959-11	29000 p 1 kV film
C609	1-129-964-11	0.027 200 V film
C610	1-121-999-11	10 160 V elect
C611	1-102-189-11	0.0047 150 V ac
C612	1-102-038-11	0.001 500 V
C705	1-129-779-11	0.022 1 kV film
C707	1-121-759-11	4.7 250 V elect
C708	1-108-700-31	0.047 200 V mylar
C709	1-108-644-31	0.33 100 V mylar
C801	1-108-702-31	0.068 200 V mylar
C802	1-129-959-11	29000 p 1 kV film
C803	1-108-700-31	0.047 200 V mylar
C804	1-129-990-11	31000 p 1 kV film
CV201	1-141-138-00	5 p ~ 8 p, trimmer
SG501	1-519-063-00	Speaker Gap, 1.5 kV
SG701	1-519-098-00	Spark Gap, 6 kV

RESISTORS

All resistors are in ohms. ¼W, ±5% carbon resistors are omitted. Check schematic diagram for resistance values. k = 1000 M = 1000 k

Ref. No.	Part No.	Description
R153	1-244-861-11	330 ½W carbon
R230	1-206-479-11	47 2 W metal oxide
R238	1-206-650-11	270 2 W metal oxide
R365	1-211-417-11	22 ⅛ W carbon, non-combustible
R401	1-206-485-11	82 2 W metal oxide
R402	1-206-481-11	56 2 W metal oxide
R421	1-244-869-11	680 ½W carbon
R511	1-244-905-11	22 k ½W carbon
R527	1-213-163-11	47 k 1 W metal oxide
R531	1-211-417-11	22 ⅛ W carbon, non-combustible
R532	1-207-466-11	1.8 ½W wirewound
R533	1-213-153-11	6.8 k 1 W metal oxide
R539	1-244-915-11	56 k ½W carbon
R543	1-212-373-11	12 1 W metal oxide
R544	1-244-901-11	15 k ½W carbon
R545	1-211-409-11	10 ⅛ W carbon, non-combustible
R552	1-244-859-11	270 ½W carbon
R556	1-206-471-11	22 2 W metal oxide
R558 R559	1-206-485-11	82 2 W metal oxide
R560	1-206-455-11	4.7 2 W metal oxide

Ref. No.	*Part No.*		*Description*	
R564	1-213-134-11	180	1 W	metal oxide
R569	1-244-873-11	1 k	½W	carbon
R570	1-244-855-11	180	½W	carbon
R573	1-213-165-11	470 k	¼W	metal oxide
R574	1-206-471-11	22	2 W	metal oxide
R575	1-207-987-11	1.8	5 W	wirewound
R586	1-206-469-11	18	2 W	metal oxide
R594	1-206-485-11	82	2 W	metal oxide
R602	1-217-321-11	820	5 W	wirewound
R603	1-211-662-11	10 k	½W	carbon, non-combustible
R604	1-213-125-11	33	1 W	metal oxide
R609	1-244-905-11	22 k	½W	carbon
R610	1-202-637-11	470 k	½W	composition
R612	1-211-520-11	82	¼W	carbon, non-combustible
R615	1-244-906-11	24 k	½W	carbon
R616	1-206-696-11	22 k	2 W	metal oxide
R617	1-213-131-11	100	1 W	metal oxide
R624	1-206-642-11	120	2 W	metal oxide
R625	1-206-485-11	82	2 W	metal oxide
R626	1-213-136-11	270	1 W	metal oxide
R627	1-213-136-11	270	1 W	metal oxide
R628	1-206-709-11	220	3 W	metal oxide
R630	1-244-905-11	22 k	½W	carbon
R639	1-213-163-11	47 k	1 W	metal oxide
R704 R705 R706	1-206-690-11	12 k	2 W	metal oxide
R707 R708 R709	1-202-587-11	3.9 k	½W	composition
R719	1-202-637-11	470 k	½W	composition
R720	1-202-639-11	560 k	½W	composition
R721	1-202-637-11	470 k	½W	composition
R722	1-202-620-11	91 k	½W	composition
R723	1-202-629-11	220 k	½W	composition
R727	1-202-641-11	680 k	½W	composition
R728	1-202-543-11	56	½W	composition
802	1-244-885-11	3.3 k	½W	carbon
04	1-202-615-11	56 k	½W	composition
07	1-202-575-11	1.2 k	½W	composition
1	1-217-366-11	3.3	30 W	cement coated
3	1-202-657-11	3.3M	½W	composition
4	1-217-184-11	8.2	20 W	cement coated

Ref. No.	*Part No.*		*Description*	
*R905	1-207-461-11	0.68	½W	wirewound
	1-207-467-11	2.2	½W	wirewound
	1-207-474-11	8.2	½W	wirewound
R906	1-213-168-11	120	5 W	metal oxide
R907	1-206-481-11	56	2 W	metal oxide
R931	1-205-810-11	180	40 W	cement coated
R932	1-205-526-11	220	40 W	cement coated
VR201	1-222-784-00	3.3 k-B, adjustable; SOUND TRAP		
VR202	1-222-517-00	1 k-B, adjustable; TUNER AGC		
VR301	1-222-518-00	4.7 k-B, adjustable; ACC		
VR302	1-222-785-00	2.2 k-B, adjustable; HUE CENT		
VR303	1-222-344-00	5 k-B, adjustable; B BKG		
VR304	1-222-344-00	5 k-B, adjustable; R BKG		
VR305	1-222-344-00	5 k-B, adjustable; G BKG		
VR351	1-224-259-00	5 k-B, variable; SHARPNESS		
VR352	1-224-260-00	10 k-B, variable; HUE		
VR353	1-224-261-00	20 k-B, variable; COLOR		
VR354	1-224-259-00	5 k-B, variable; BRT		
VR501	1-224-147-00	20 k-B, variable; VER		
VR502	1-222-518-00	4.7 k-B, adjustable; V. LIN		
VR503	1-222-512-00	10 k-B, adjustable; V. SIZE		
VR504	1-222-786-00	22 k-B, adjustable; H. FREQ		
VR505	1-222-787-00	10 k-B, adjustable; V. BIAS		
VR506	1-223-068-00	200-B, adjustable; H. CENT		
VR585	1-222-786-00	22 k-B, adjustable; PIN AMP		
VR586	1-222-784-00	3.3 k-B, adjustable; PIN BIAS		
VR601	1-222-518-00	4.7 k-B, adjustable; 130 V ADJ		
VR602	1-223-019-00	300-B, adjustable; H. TILT		
VR701	1-222-515-00	330-B, adjustable; G. DRIVE		
VR702	1-222-515-00	330-B, adjustable; R. DRIVE		
VR703	1-222-515-00	330-B, adjustable; B. DRIVE		
VR704	1-224-150-00	1 M-B, adjustable; SCRN		
VR851	1-224-151-00	51 M, adjustable; FOCUS		
VR852	1-224-152-00	47 M, adjustable; H. STAT		
VR901 S901	1-222-686-00	50 k-D, variable; PULL ON/VOL		
VR902 S902	1-224-428-21	5 k-B, variable; PICTURE/QUICK START PULL ON		

∗ : to be selected.

MISCELLANEOUS

Ref. No.	*Part No.*	*Description*
DC801	1-453-046-00	HV (high voltage) Rectifier Block Ass'y including;
	1-224-151-00	Adjustable Resistor, FOCUS (VR851)
	1-224-152-00	Adjustable Resistor, H.STAT (VR852)
	1-526-199-71	Cap, anode
	3-705-626-00	Case, HV block
F601	1-532-214-00	Fuse, 5A
F602	1-532-213-00	Fuse, 4A
J901	1-507-372-12	Mini-jack, EARPHONE
NE701 NE702	1-519-108-00	Lamp, neon
NE801	1-519-127-11	Lamp, neon
NE901 NE902 NE903	1-519-099-11	Lamp, neon
S101	1-514-478-00	Switch, slide (included in antenna terminal ass'y)
S451	1-514-897-12	Switch, pushbutton; AUTO/AFT
SP901	1-502-378-00	Speaker, 8 Ω
CR101 CR102	1-102-072-11	Capacitor, spark gap (included in antenna terminal ass'y)
X301	1-527-154-00	Crystal, 3.58 MHz
	1-452-014-00	Magnet, disk; 15 mm dia.
	1-452-032-00	Magnet, disk; 10 mm dia.
	1-452-060-21	Magnet, BMC
	1-526-518-00	Socket, picture tube
	1-526-522-13	Socket, plug
	1-534-083-21	Cord, power
	1-534-630-11	Coaxial Cable with plug
	1-534-885-00	Coaxial Cable with plug

Ref. No.	*Part No.*	*Description*
	1-536-243-00	Terminal, 2-P
	1-536-396-00	Lug, terminal
	1-536-333-11	Pin, terminal
	1-534-764-21	Feeder with Connector
	1-536-441-00	Antenna Terminal Ass'y including;
	CR101 CR102	1-102-072-11 Capacitor, spark gap
	C101	1-102-315-11 Capacitor, 470 p; 150 V; ceramic
	T101	1-417-033-22 Transformer, balun; rf input
	S101	1-514-478-00 Switch, slide
		1-534-825-00 Coaxial Cable with plug
CRT	8-736-101-15	Picture Tube, 520HB22

CARTON AND ACCESSORIES

Ref. No.	*Part No.*	*Description*
	X-3701-031-0	Warranty Card Ass'y
	Y-2063-103-0	UHF Loop Antenna (AN-15)
	Y-2201-611-5	Telescopic Antenna, dipole (AN-16)
	1-504-034-32	Earphone (ME-20B)
	3-701-352-00	Bag, instruction manual
	3-701-730-00	Bag, IBM card
	4-312-552-00	Carton
	4-312-553-00	Cushion, left; upper
	4-312-554-00	Cushion, right; upper
	4-312-555-00	Cushion, left; lower
	4-312-556-00	Cushion, right; lower
	4-312-557-00	Sheet, protection
	4-491-039-00	Tag, VHF antenna
	4-491-058-12	Tag, eye-catcher
	4-493-214-12	Card, caution
	4-495-471-21	Manual, instruction

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